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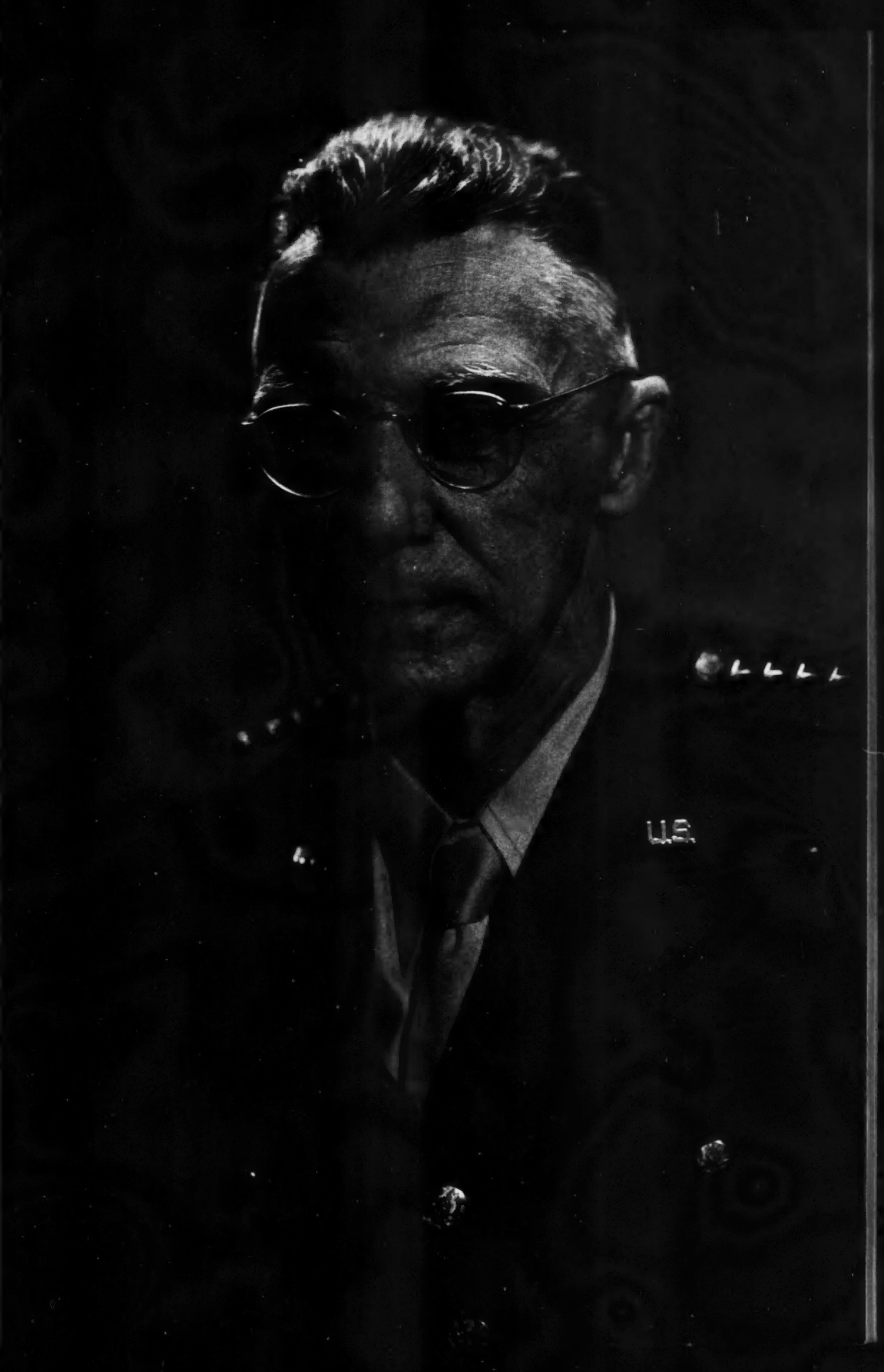

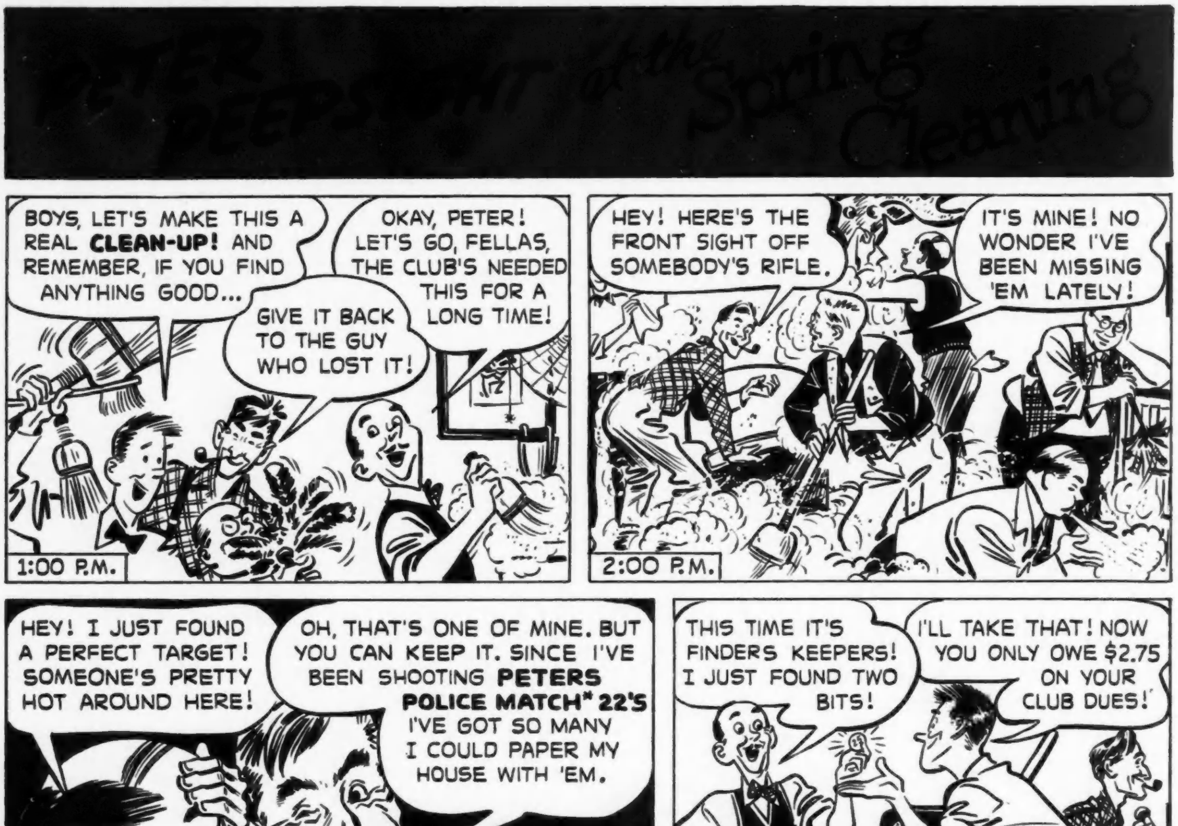
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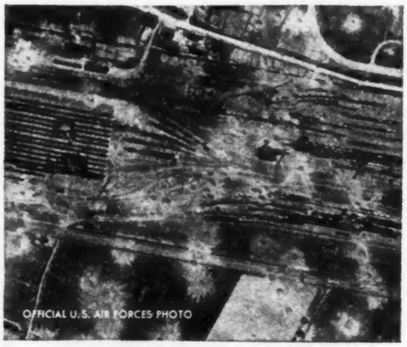

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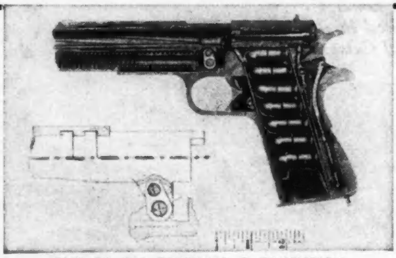
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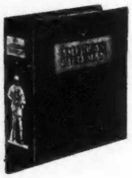

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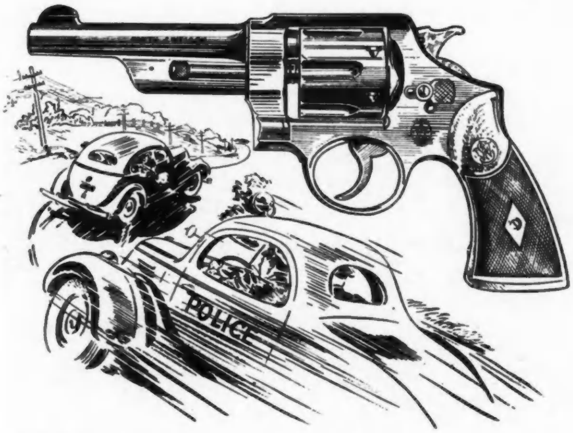

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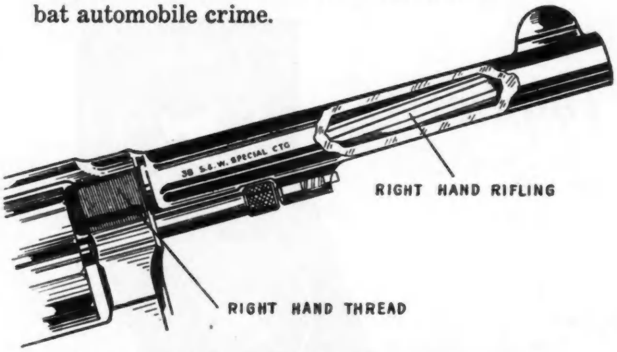
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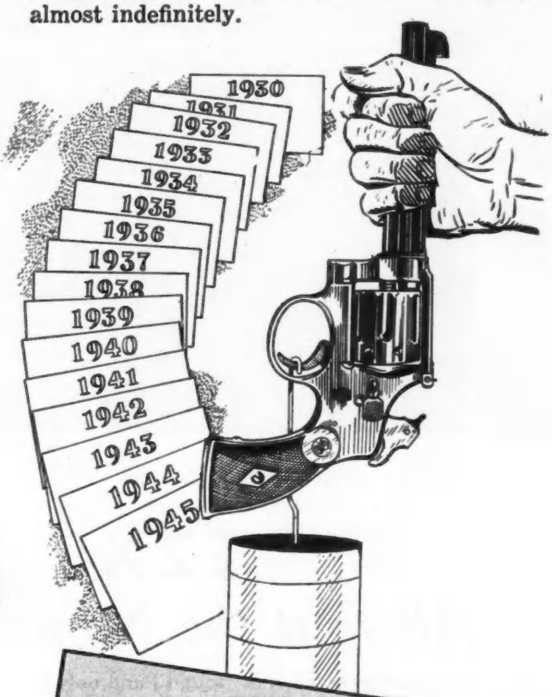
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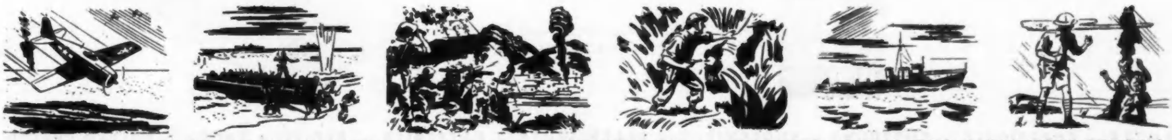

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An Editorial

San Francisco—and After

AMERICA, at this moment, is the most powerful nation in the world. At the same time it is probably the most schooled and least educated nation in the world. Europe realizes these facts far more clearly than does America. So Europe trains its propaganda guns on America. This is neither improper nor vicious. Less intelligently, America has tried the same technique.

The success of European propaganda in America is due to several factors. Most important has been the failure of the modern American educational system to teach logic, philosophy, or real history. We have been too busy with "self-expression," "social science," and the insides of internal combustion engines and radio tubes, to bother with those "old-fashioned" subjects which teach men to *reason* and to *understand* the background of "civilization."

The second factor has been the unique development in America of the "columnist" and "commentator." Nowhere else in the world is it so easy to reach the average citizen by daily newspaper, weekly news magazine, and hourly radio program. Nowhere else is it so easy for the newspaper "leg man;" the sports writer; the associate professor of this or that; the suddenly publicized businessman, preacher, or labor leader; the publisher's or politician's wife—to become, overnight, an "expert" on the whole entangled maze of human relations, world politics, child psychology, or military tactics and strategy. They become "experts," too frequently, for the sole reason that the local paper or radio station needs a "columnist" or "commentator" to meet competition. They have an interesting, arresting or argumentative style. They "catch on" with the public. And the average American begins to express opinions formed for him by a man or woman whose educational background, breadth of vision, and mental balance is perhaps inferior to that of the reader or listener. This is no blanket criticism of columnists and commentators. There are *many* dependable, unbiased, well qualified, worth-listening-to, or worth-reading workmen in this field of public education. But the others make possible the broad dissemination in America of warped, selfish, half-truth propaganda that harms rather than helps the American's understanding of the involved problems we are now called upon to act upon.

This is no plea to disregard all you read or hear, or to view Europe and all its works with suspicion. It is no plea to America to again shove its head in the sand and let the rest of the world go by. *It is a plea* to the average American to *admit* his lack of knowledge about most of the international problems that will be so widely (and often unintelligently) discussed by American politicians and publicists during this month of April, 1945. It is a plea to Americans to read and listen to *all* the information they can get on the history of man's efforts to govern himself. It is a plea to America to learn *all* it can about the history of its forbears in Europe and its neighbors across the Pacific—so that each of us can improve our personal knowledge and form *intelligent* personal opinions. *It is a plea* to American public officials to tell the American people the truth—the whole truth!

The history of mankind proves that when the average man is given a *chance* to use his native "horse sense" unwarped by passion, half-truths, and lies, he finds a solution which is sensible, fair and workable. America must find such a solution at San Francisco and in the months ahead. It must be above party politics, class preferences, and petty nationalism—but all those things will be constantly in the picture that will be skillfully painted for the view of the American citizen by *some* of our own politicians and publicists.

Today, as never before, Americans should have opinions and should express those opinions regarding world affairs. But we should frankly admit that we really *know* all too little about foreign affairs. Before expressing ourselves we need to do a deal of unbiased, open-minded searching for truth and not merely follow blindly the story that comes to us from our favorite columnist, commentator, or politician.

America is today the world's most *powerful* nation—whether it emerges as the world's *greatest* nation depends on the ability of the American people to learn facts and apply them with courage, tact, and reasonable forbearance to the solution of the problems we face at San Francisco and in the years ahead.—C. B. L.

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Official Journal of The National Rifle Association of America

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...DEATH VALLEY SHOTS...

By DAVE LANAGAN, JR.

DEATH VALLEY IS A WIDE, forbidding waste to some, but to the varmint hunter it's a paradise. The ways of life here are vastly different from those of the comfortable cities, or even of the more accessible forest or swamplands. The desert can be as cold and sinister as Death itself, and the man who thinks he can lick it is a fool. But with common sense, some understanding, and a little knowledge of its ways, the desert can be a very beautiful place in which to spend many happy hours.

My favorite shooting site is an old water hole used by generations of California teamsters and travelers. It is still in use as a watering place for cattle—and for the targets I go there to shoot. Along about sundown I climb this hill and lie in wait for the jack rabbits and coyotes that are inevitably drawn to the cool liquid of this hole. Some nights, the coyotes don't show up and all that offer themselves are the "jacks." So, just before it gets too dark for careful aim, I take as many of them as offer themselves to my 10X Fecker.

If I can possibly do so, I'm back at the same stand next morning. Attracted by the feast of jack rabbits I prepared for them the previous evening, the coyotes assemble and I greet them with proper ceremony.

Good company is of value anywhere, but in the desert it is priceless—and, to me, the best of good company for my desert trips is my .25 Niedner Springfield. This splendid caliber is almost extinct now. In all probability, there are not more than a few dozen now in use; but anyone who is lucky enough to have a .25 Niedner can be mighty proud of it. Colonel Townsend Whelen was one of the first to have a rifle chambered for this cartridge. That was back yonder years ago. Me, I am the proud possessor of A. O. Niedner's personal Springfield rebuilt on this caliber.

The .25 Niedner cartridge is the .30-'06 case necked down to .25 caliber. It is the big brother of the .257 Roberts. But the larger case gives it far greater capacity in the boiler room—and corresponding results at either end of the weapon. The recoil, I must admit, is rather powerful; but anyone accustomed to shooting the .30-'06 cartridge will find it quite comfortable. The recoil is about the equal of 75 per cent of that of the service cartridge, but the report is sharper and has a higher pitch.

The accuracy of my rifle is superior to either the .30-'06 or the .257 Roberts. Up to 125 yards, I can score quite readily on the head of a crow. This is due in large measure to the splendid work of A. O. Niedner on the barrel, on the beautiful double-set triggers, and on the superbly smooth-working rebuilt Springfield bolt. With carefully made handloads utilizing, for example, the 90-grain Barnes-Spitzer bullet ahead of 42.5 grains of Number 4064 du Pont powder, this is a perfect combination and the most delightful sort of company for idle hours on the desert. It is the varmint hunter's dream rifle, and the desert provides it with plenty of targets.

Another constant companion of mine in the desert is my .22 Colt Officer's Model. It is a perfect little side arm for this country, especially during the spring and early summer when the desert provides less desirable companions in the shape of rattlers. And I find, too, that practice with this little weapon has done as much for my rifle shooting as any other one factor. Regular pistol shooting is very helpful in developing that educated trigger finger for expert work in trigger squeeze with a rifle.

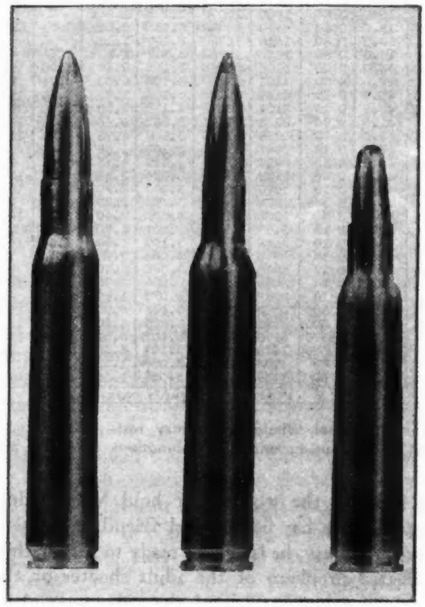
Early morning or just before dusk is the time to find the desert varmints on the prowl. The crows of this country readily

To one fabulously accurate rifle, add a good scope, a plentiful supply of made-to-measure ammunition, and a well-trained trigger finger. Then find a spot where there's game a-plenty —and you have the varminter's idea of Paradise. Here is one man who found just such a Paradise . . . in, of all places, Death Valley!

succumb to the lure of scattered corn in open clearings a couple of hundred yards from your hide-out. A little patience will, "sure as shootin'," be rewarded by the arrival of a scout or lookout bird winging over on patrol to see what he can see. Don't harm him for he's your messenger. Quickly, he passes the word by crow grapevine and shortly a half dozen of his mates will arrive on the scene. These are sporting targets indeed, fit to try the skill of any marksman.

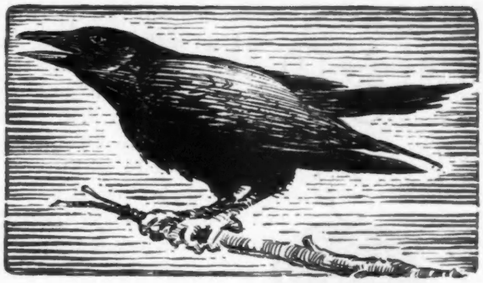
The longest shot I have ever made on a crow was 403 long paces. Driving along the rim of the valley about six one morning I spotted a bird breakfasting out on the flat. Stopping as soon as I could—and you daren't stop within a couple of hundred yards of these sly rascals—I took careful aim over the car door. That bird looked awfully small 'way out there but I held close and carefully "squoze her off." To my amazement and delight, old man *Corvus Brachyrhynchos* exploded in a cloud of black feathers.

Four hundred and three are a lot of yards between you and a target the size of a crow. I'm frank to admit that this is *not* the usual range for my desert shooting, but I sorta like to talk about that shot. Most of this shooting is done at ranges between 170 and 300 yards. But occasionally a really long shot challenges the rifleman and adds zest to the shooting. Actually connecting at such ranges does wonders for one's morale, not to mention what it does to one's ego.



For comparison: a 30-'06 cartridge, left; a .25 Niedner, center; and a .257 Roberts, right.

For gilt-edged accuracy at these ranges, the most careful sort of handloading is almost imperative. The loads must be checked and double checked in the rifle in which they are intended to be used. I have tried many combinations of powders and bullets in order to find the best possible load for my rifle. But one of the joys of handloading is to shoot one combination or one load against another in order to find the exact balance between rifle and load, and between primer, powder charge, and bullet. It is a real thrill to locate finally the proper load for the favorite rifle—the one load which will outshoot all others and give uniformly fine results at all ranges. It takes patience and perseverance to arrive at such a result but, once it is done, the sense of satisfaction in a personal accomplishment is ample reward for the time and effort expended.



The finest and most accurate tools are none too good for turning out such superaccurate loads. I use the Fairbanks scale to measure my powder and the straight-line reloading tool manufactured by the Niedner Rifle Corporation of Dowagiac, Michigan. These have given fine satisfaction and have increased by half the joy of building reloads for this particular shooter.

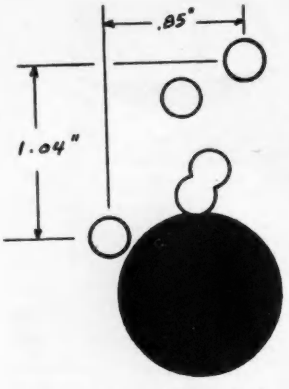
Many shooters with years of experience behind them tell me that much of the joy they get from their favorite sport is during the long evenings over the reloading bench, ever trying to improve their accuracy and to build a faster, better load for that old .30-40, or what have you. Good old "Buckskin" Bud Sackett of Santa Ana, California, is one of the many old-timers who find happiness in this "indoor sport." Until you've sipped Bud's coffee over an open fire, you haven't lived, brother. If your next target doesn't show a "possible," it won't be Bud's fault—nor that of his coffee. Old Bud is one of God's chosen. He's getting along in years, but under the pure white of his hair the calmness of the out of doors shines from his deep blue eyes. And they gleam and your spine tingles as he recounts the wealth of his years of shooting experiences.

I have found that my finest accuracy with this .25 Niedner is obtained with the Number 120 Winchester primer and du Pont Number 4064 or 4198 powder behind the Barnes-Spitzer 90-grain, heavy-jacketed bullet with soft lead-exposed point. A charge of 42.5 grains of Number 4064 will give about 3355 foot-seconds velocity and will group those bullets into an inch or under at 100 yards. It is possible to pack into this large .30-'06 case as much as 52 grains of powder, but here you develop high pressures and the recoil is not at all pleasant. Fortunately, the finer accuracy is generally obtained with powder charges considerably below maximum.

Colonel Whelen was delighted with his .25 Niedner rifle which Mr. Niedner made for him. He says: "It proved to be such a gilt-edged rifle that I decided to give it further study. I, therefore, obtained from Mr. Niedner a heavy barrel chambered for this cartridge, which could be used in the Mann V-rest for accuracy shooting. Then I acquired a third barrel which was converted into a pressure gun.

"The tabulation included herewith shows fifty accuracy groups fired with this latter barrel. It also shows pressures and velocities taken at the Frankford Arsenal laboratory with the older powders and bullets then available. These results, which include *all* the firing, are excellent, but I believe that very much better results can be obtained today with modern powders and bullets.

"As a result of considerable work with this cartridge and



Two-hundred-yard group fired with the Niedner Springfield.

with others of a similar nature, I am inclined to feel that the .25 Niedner represents the highest velocity that we can get in a .25 caliber barrel without running into excessive erosion and short barrel life."

Out here, local history is as rich as the mineral wealth that has been taken from its hills. Romantic and colorful Searles Lake is here. Who was the first white man to pass through this great salt basin or when he passed is not known. But toward the middle of the Nineteenth Century American explorers and trappers began traversing the route through what is now called Searles Lake Valley, and during the decade following 1860 prospectors discovered rich pockets of gold and silver in the arid mountains west of Death Valley. Mines were developed and men toiled in the hot desert sun building roads for passenger stages and for freight wagons transporting supplies and ore between the mines and the seacoast ports.

About thirty-nine miles southwest of Searles Lake is a dreamy little California mountain town called Randsburg. The few hundred folk living here carry on the traditions of the early California miners by continuing to operate the famous Yellow Astor Gold Mine—on a reduced basis—and such others as the King Solomon Gold Mine and the Golden Queen a few miles away. Here within a radius of fifty-four miles every known kind of mineral can be found.

The elevation here is about 3,500 feet and a 90-grain .25 caliber bullet zeroed in at sea level will raise two and one-half inches at one hundred yards. On a recent visit with my in-laws high in the Piute Mountains about eighty-five miles west of Death Valley, I was surprised to find that at this elevation my .30-'06 Niedner Springfield bull gun shot to practically the same point of impact as at 3,500 feet. This was true not only of full-charged Winchester match bullets handloaded, but of various cast bullets such as the Lyman Number 308329 and the 169-grain Squibb-Miller bullet. Even the 110-grain Winchester .30-30 bullet maintained its same flight in this pure mountain air.

In a natural 200-yard range without any obstructions at all, I found that the best time for fine target shooting was in late afternoon just before sundown. The air here at this time was still as a slab in a morgue and, by watching closely through my 20X Niedner scope, I could follow the flight of gas-check bullets very easily. (Incidentally, it might be of interest to note that, while climbing around the rocks at this altitude, one's appetite suffers—in reverse. It increases to almost double its normal size!)

The reader of these lines may, ere now, have developed a suspicion that this writer is somewhat fond of one A. O. Niedner, and of the magnificent products of his unusual skill and talent. I'll have to plead guilty to this charge. However, this is not at all unusual, for shooters the world over hold Mr. Niedner in the highest regard. He has been a real friend of mine for many years. Never too busy, he is always ready to help with the heavy and complicated problems of the adult shooter or the equally heavy trials of the kid on the road to "expert." Niedner's faint smile has always covered a mind deeply preoccupied with new and better ways to improve your shooting and mine. We, he and I, have done some fine target work on the 200-yard range at his factory. Perhaps the reason why my .25 Niedner Springfield is such a comrade to me in the desert, is that this fine old man has built into it inevitably a part of himself. He is always there in the desert with me, doing the things we love most to do. ◆ ◆ ◆

Groove diameter .257"
Bore diameter .250"
Barrel length 26.000"
Twist, 1 turn in 12.000"

D—DuPont
H—Hercules
W—Western
U—U.S. Ctg. Co.
F—Frankford
S—Savage

O—Soft or Open Point
J—Full Jacketed
BT—Boat Tail
MR—Mean Radius
EV—Extreme Vertical
EH—Extreme Horizontal

	Bullet	Powder					200yds	600 yards		
	Weight (grs.) Make Type	Weight in grains	Kind	Muzzle velocity (f.s.)	Breech pressure (lbs.)	Overall cartridge length (in.)	Group diameter (in.)	M. R. (inches)	E. V. (inches)	E. H. (inches)
1	2	3	4	5	6	7	8	9	10	11
1	100 W O	43.5	D 15	3005	49450	3.085	3.10	3.13	7.35	7.30
2	100 W O	43.5	D 15	3005	49450	3.085	3.75	3.14	7.20	10.25
3	100 W O	42.0	D 18	2995	51475	3.085	3.60	3.34	8.70	9.45
4	100 W O	42.0	D 18	2995	51475	3.085	2.30	2.92	9.25	6.60
5	100 W O	38.0	D 20	2800	44530	3.085	3.05	3.64	11.15	7.70
6	100 W O	38.0	D 20	2800	44530	3.085	3.40	3.90	13.60	9.45
7	100 W O	40.7	D 20	2959	49850	3.085	3.95	3.95	12.50	12.50
8	100 W O	40.7	D 20	2959	49850	3.085	2.85	2.67	10.10	5.70
9	87 S O	45.0	D 18	3270	48150	3.05	3.05			
10	87 S O	42.0	D 20	3145	48950	3.05	3.00			
11	87 S O	42.0	D 20	3145	48950	3.05	3.80			
12	87 S O	15.0	D 80	1753	16720	3.05	2.15x			
13	87 S O	15.0	D 80	1753	16720	3.05	2.50x			
14	87 S O	15.0	D 80	1753	16720	3.05	1.85x			
15	87 W O	44.0	D 18	3211	52475	3.107	2.30	4.18	14.20	7.70
16	87 W O	44.0	D 18	3211	52475	3.107	3.15	3.12	9.10	7.20
17	87 W J	45.0	D 18	3274	51175	3.165	5.30	4.83	13.30	11.05
18	87 W J	45.0	D 18	3274	51175	3.165	5.10	4.50	11.40	14.95
19	87 W O	43.0	D 20	3171	53500	3.107	3.00	5.02	19.20	6.75
20	87 W O	43.0	D 20	3171	53500	3.107	2.40	4.34	12.15	6.35
21	87 W J	44.0	D 20	3213	50675	3.165	6.80	6.91	16.00	11.95
22	87 W J	44.0	D 20	3213	50675	3.165	5.70	6.09	16.50	17.45
23	87 W J	15.0	D 80	1680	16000	3.165	1.96x			
24	87 W J	15.0	D 80	1680	16000	3.165	3.00x			
25	87 W O	15.0	D 80	1636	15750	3.107	1.15x			
26	87 W O	15.0	D 80	1636	15750	3.107	1.55x			
27	100 F BT	44.0	D 20	3103	53280	3.162	2.60	3.98	9.70	9.65
28	100 F BT	44.0	D 20	3103	53280	3.162	2.90	3.74	8.60	8.55
29	100 F BT	43.5	D 18	3104	52175	3.162	2.70	3.34	10.65	5.10
30	100 F BT	43.5	D 18	3104	52175	3.162	2.80	5.38	22.05	18.10
31	101 F J	41.0	D 20	2968	51550	3.162	5.80	3.80	9.10	11.75
32	101 F J	41.0	D 20	2968	51550	3.162	3.70	4.34	11.65	10.15
33	101 F J	40.5	D 18	2927	51125	3.162	5.85	5.80	20.10	14.00
34	101 F J	40.5	D 18	2927	51125	3.162	4.15	3.71	9.50	10.20
35	87 U J	42.5	D 20	3120	50300	3.026	3.25	4.35	13.60	10.30
36	87 U J	44.0	D 18	3079	51375	3.026	2.90	3.68	13.20	10.60
37	100 W O	43.0	H 300	3002	51800	3.085	3.20	3.32	7.95	10.40
38	100 W O	43.0	H 300	3002	51800	3.085	2.40	3.45	10.10	6.80
39	87 W O	42.0	D 16	3162	50675	3.107	1.70	3.20	7.95	3.90
40	87 W O	42.0	D 16	3162	50675	3.107	3.50	4.14	14.40	7.10
41	100 W O	38.0	D 16	2878	49550	3.085	3.90			
42	100 W O	38.0	D 16	2878	49550	3.085	2.40	2.96	6.20	7.85
43	87 U J	44.0	D 16	3262	51300	3.026	3.70	4.40	12.95	9.10
44	87 U J	44.0	D 16	3262	51300	3.026	3.90	3.92	9.25	14.30
45	87 U J	46.0	H 300	3273	52400	3.026	2.50	3.89	10.90	10.50
46	87 U J	46.0	H 300	3273	52400	3.026	3.60	3.52	13.20	8.45
47	87 W O	45.5	H 300	3178	49300	3.107	3.20	3.24	11.05	4.50
48	87 W O	45.5	H 300	3178	49300	3.107	3.35	3.47	9.45	10.20
49	87 U J	15.0	D 80	1739	17720	3.026	1.50x			
50	87 U J	15.0	D 80	1739	17720	3.026	1.55x			

x = Fired at 100 yards only.

A tabulation of Colonel Whelen's accuracy tests with the .25 Niedner. Fifty ten-shot groups, using various combinations of bullet and powder.

Did you read Bill Shadel's story, "Fortress Hotel," in the *Saturday Evening Post, March 24?*

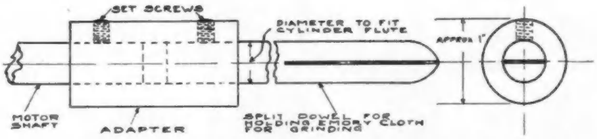
Before Blueing Your Gun

By WALTER J. HOWE

ALTHOUGH THE CHEMICAL BLUEING OF GUNS is not a very practical home pursuit, it has become more popular in recent times, due in no small measure to the introduction of the hot-dip method of blueing (a chemical process) which combines ease of application and a pleasing finished appearance.

The actual blueing of small arms by the dip method is indeed very simple. However, this does not simplify or shorten the ever-necessary preparatory work.

With most hot-dip processes, the work *can* be put directly into the blueing tank, after cleaning, without removing the old blue, or any grinding or buffing of the metal's surface. True enough, the work emerges with a blue-black tone, but the finished appearance is neither professional looking nor durable. On the other hand, if time is spent in removing the old blue—grinding and buffing the gun prior to the reblueing—then the true gun lover will not feel he has wasted either time or money, for the superior results and lasting qualities of the finish will be self-evident.


SET SCREWS
DIAMETER TO FIT CYLINDER FLUTE
APPROX 1"
MOTOR SHAFT
ADAPTER
SPLIT DOWEL FOR HOLDING EMORY CLOTH FOR GRINDING

Adapter attaches split dowel rod which holds strips of emery cloth for polishing inside trigger guard, in cylinder flutes, and like surfaces.

Before any gun is to be blued it should be *completely* disassembled. Under no circumstances should any springs be left in the weapon itself or in any of its subassemblies. The heat required in hot-dip processes and the corrosive action in rusting-type bluers has a definitely bad effect on springs.

Following disassembly and segregation of parts, separating those which are to be blued, the old blueing is removed. To do this, we use hydrochloric or muriatic acid (HCl), procurable at drugstores or plumbing supply houses. The acid is mixed with an equal volume of water and applied to the blued surfaces. There are two definite ways in which the acid can be employed to produce results. It can be poured in some type of glass or crockery receptacle and the pieces to be treated immersed therein. However, if only a limited amount of work is to be treated, it may not be considered profitable to invest in a receptacle for the acid. In that event, a small swab can be fashioned from cotton cloth and a stick. In using the swab method, a small amount of the diluted acid can be put in any old glass receptacle and thus applied, a la paintbrush, to the work. Smaller parts, such as screws, triggers, etc., can be strung on a length of wire and immersed. It should hardly be necessary to say that the acid, either concentrated or diluted, is potent. When wrestling with the HCl, select a spot where the splashing and spattering will do little harm. Old newspapers should be spread around generously to act as an absorbing medium—and be careful to avoid direct skin contact with the acid lest burns and a yellow-stained epidermis be the undesirable reward. The action of acid cleaning can be greatly facilitated by first boiling the parts in water. This speeds up the chemical reaction by virtue of heat, and it also removes traces of oil and inhibiting matter from the surfaces being treated. The cleaner the metal, the better the job.

The bore of any gun about to be given the acid treatment should be protected by grease or even vaseline to forestall any possibility of corrosion.

Following the acid-cleaning process (pickling), the pieces should be thoroughly cleansed under running water, preferably hot, for hot water will hasten drying.

All this long-winded but short-time acid-cleaning job brings us now to the more involved and important operations of grinding and buffing.

Although the novice cannot expect to attain proficiency by the mere acquisition and use of professional motor-driven equipment and polishing compounds, intelligent use of them will certainly put him on the right track towards a better surface finishing job. And not unlike most other tasks, the correct type of practice will soon make for another degree nearer to perfection.

Like the amateur photographer, the amateur gunsmith can invest anything from ten dollars to a thousand in equipment, and still not be fully outfitted. Up to a certain point, general equipment can be purchased to do a job and after that Mother Necessity steps in. The basic requirements for polishing equipment are a motor (or some source of mechanical power), wheels, and abrasive compounds. From these, all other special devices may be fashioned and put to work.

The motor should be at least one-fourth horsepower and 1750 r.p.m. A one-half-horsepower motor is more desirable, however, if any great amount of work is to be done on a profitable time basis. The abrasive and polishing wheels can be run directly on the motor shaft; but a belt-driven polishing head with one-half-inch or three-fourths-inch threaded spindle is more efficient, since less strain is put on the motor and a wider working space is provided. The latter is very necessary when working on shotgun and rifle barrels or odd-shaped parts. Wheels for fine grinding are made of canvas, fiber, hide, rubber, felt, muslin, or wood, in many widths and diameters.

(*Continued on page* 30)

THE COVER

THE AMERICAN RIFLEMAN

Official U. S. Navy Photo.

General Joseph W. Stilwell has practically every decoration within the gift of a grateful nation. Men who marched with him and fought with him in China say that he earned them twice over.

A friend, congratulating him on his most recent awards (oak leaf cluster to the DSC, and the Legion of Merit) remarked on the fact that the General wears only a few of his many honors.

"You know," said the General, "there's one medal I would *like* to wear, but I've just never been able to win it. That's the Expert Rifleman medal! I envy those who wear it!"

We welcome, as Chief of Staff of Ground Forces, a General who thus correctly evaluates the prime requisite of a soldier!

WHICH SHOTGUN *and* WHAT LOAD?

Jim Berryman

By ELMER KEITH

SHOTGUN RANGES, FOR RELIABLE KILLING of ducks or birds, are limited by patterns and pellet energy remaining out where the birds are struck. The quantity and size of the shot determine the effective range. The larger the shot charge, other items such as choke being uniform and even, the longer the range over which an even killing pattern may be expected. And the larger the shot size, the greater the pellet energy remaining out at long range.

Generally speaking, patterns are controlled by choke, and the remaining energy of the pellets is determined by their size. Small shot will give very dense patterns even to quite long range, but small shot lose energy much faster than larger shot and are more apt to drift off the mark in a strong wind. For comparison, let's consider a full-choke gun in each gauge: .410 (three inch), 28 bore, 20 bore, 16 bore, standard 12 bore, Magnum 12 bore, Super 10 bore, and the big Magnum 10 bore. The ranges over which most shots are taken and the size of the bird hunted largely determine the gauge gun and size shot needed. For shooting ruffed grouse, quail, and woodcock in dense cover, where shots will average twenty-five yards or less and never be over thirty yards for the smaller birds nor over forty yards for the larger grouse, there is no earthly need for any bore larger than standard 12 with three- to three-and-one-fourth-dram loads of powder and one and one-fourth ounces of shot. Neither is there any need for a full-choke gun for such shooting except with .410 and 28 bores. Likewise, there is no need for big heavy shot, unless heavier shot is preferred, because fewer pellets damage the bird less for table use.

When pheasants and other upland game are taken over a good dog that will point and hold the birds until the shooter is right up on top of them when they rise, so that shots are always taken under forty yards, then the 12 bore and smaller loads will do nicely. For quail, woodcock, and snipe, Number 8 shot are excellent, and Number 7½ will do at such ranges, for all bores under 12. For such shooting, the 12-bore man can use a fairly open boring (improved cylinder, or quarter- to half-choke), which gives him a large, even, killing pattern. The man who prefers a 16 or 20 bore can also use a fairly open boring for the same reason. But the man hunting with the 28 bore or Magnum .410 should use full choke for such shooting, to insure a dense killing pattern with his smaller shot charge. He will have to hold closer to the mark, but he will have a much lighter gun and ammunition to pack; and, at such ranges, if pointed right, the little full-choke Magnum .410's or 28's with their three-fourths-ounce loads will kill just as dead as the larger, more open-bored guns.

Number 7½, or at most Number 6, shot are as large as should ever be used in these two small bores with a three-fourths-ounce charge. Pattern tests will prove that Number 7½ is just about ideal for these two gauges for the larger upland birds, and Number 8 for smaller birds.

Getting back to a range comparison of full-choke guns in all bores, there is just about forty yards difference in the effective killing ranges of the Magnum .410 and the Magnum 10. This statement is based on a great many pattern tests, backed up by plenty of field shooting, on birds up to the size of sage hens and

So long as dogs will point and birds flush, men will hunt. And so long as men hunt, opinions will differ as to the proper gun and the proper load. Here, however, are the opinions of an experienced hunter, covering the whole modern shotgun family, from tiny 410 to mighty 10-gauge Magnum far-reacher.

mallards and canvasbacks. What the little five-pound Magnum .410 full choke will do with its three-fourths of an ounce of Number 7½ chilled shot at forty yards, the ten-and-a-half-pound Magnum 10 bore with its long three-and-one-half-inch case and two ounces of Number 3 Lubaloy will do at eighty yards. Between the different gauges, there is only a short increase in killing range from the smallest to the largest load now allowed by law. It's just a question of how much weight you want to carry and what distances you want to (or have to) shoot.

The 28 bore has the advantage of a shorter shot column with less pellet deformation in the cone than the Magnum .410; yet, on the pattern board and in the field, this difference is very small and I, personally, believe the 28 bore should be loaded with seven-eighths of an ounce of shot for heavy loads to have very much edge over the .410.

The 20 bore should be loaded only with one-ounce loads, and it is doubtful if anything is gained in using shot larger than Number 6 in the 20. Number 7½ will give even better, denser killing patterns. The 20 bore, full choke will kill nicely to forty-five and even to fifty yards most of the time with such loads. (I never did believe in using Number 7½ shot at ranges over fifty yards because they lose pellet energy too fast to have much penetration left on heavy birds beyond that range.)

It must be remembered that each shotgun is a law unto itself. Each usually requires careful patterning to determine the size shot it will handle best, and the make of shell it prefers. Pattern percentages usually run much higher for the larger bore guns and larger size shot pellets, as the big shot are deformed less and hence have a smaller percentage of battered shot.

Next, we come to the 16 bore. To my way of thinking, this is one of the most practical all-around upland guns. To insure even, dense killing patterns without going into the details of number of shot in the charge and pattern percentages, I consider Number 5 shot about the largest that is practical in the 16 bore in a load of one and one-eighth ounces of chilled shot. Number 6 chilled will give even denser patterns and insure a bird being struck with more pellets (unless the individual gun happens to give better pattern percentages with Number 5). Number 5 shot will, however, carry their killing energy further, and are recommended for use on big birds (such as blue grouse, sage hens, and big ducks) when the gun handles them well.

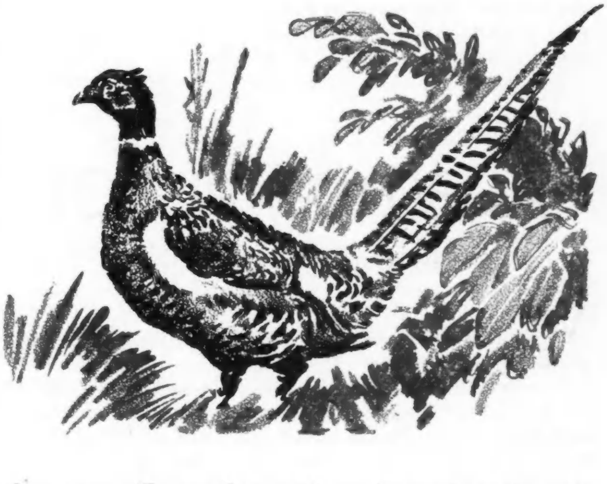
What the 20 bore will do at forty-five to fifty yards, the 16 bore will do at from fifty even to fifty-five yards from high percentage guns using Number 5 shot. Number 6 shot seems to lose pellet energy too fast to be very effective on large birds at longer ranges. The bird may be hit with several pellets, but penetration is lacking on heavy fowl.

Where ducks are taken at close range over decoys and for all close- to reasonable-range upland work, the 16 gauge will give any man about all the fun he wants, and will make nice clean kills. Where much walking is necessary, it provides a light, fast-handling piece with lighter, less bulky ammunition—and I have seen individual 16 bore guns that would outshoot ordinary 12 bores with their heavier shot load. Roughly speaking, the 20 bore extends the killing range about five to ten yards beyond the .410 and 28 bore, and the 16 bore extends it about five to seven yards farther.

Next, take the standard 12 bore with full-shot load of one and one-fourth ounces. This is the most widely used of all shotgun gauges. In full choke, it is good for all shooting up to sixty yards. Some 12 bores will handle Number 6 or Number 4 shot best, while others show a decided preference for Number 5. When the standard 12 bore handles Number 4 shot best, then that is the load for long-range duck shooting.

I have a BHE Parker with thirty-two-inch barrels, both full choke, that shoots extremely high-percentage patterns with Remington Express Number 4 chilled. The left barrel averages 90 per cent for five shots and the right barrel averages 92 per cent for five shots. This is exceptional, and is the best performance I have ever obtained from a standard 12 bore. Needless to say, that is THE load for that gun for long-range duck killing. But some guns will handle Number 5 shot best. When they do, in an 80 per cent gun, they should kill very reliably to fifty-five or possibly sixty yards. Number 6 shot will give denser patterns when the gun happens to handle them best but, as stated above, I am doubtful of their pellet energy beyond fifty-five yards on big birds.

The 12 bore is the gun for most average duck shooting, especially where the birds are shot over decoys or for average creek jump shooting, where ranges will at times extend out to sixty yards. Of course, with the 12, as with about all smaller gauges, one will occasionally kill at even longer range. (On the other hand, a wounded duck swimming low in the water may be hard to stop at much closer ranges because fewer pellets will strike him than would strike a bird in the air.) But, from the standpoint of the true sportsman who wishes to kill cleanly, these ranges will prove about maximum for certain performance.



I consider the standard 12 bore the best gun for the man who will own but one shotgun and who wishes to shoot ducks to sixty yards. If his gun is a double, he may also have an extra set of barrels bored more open for close-range upland work. If he shoots a single barrel, either autoloader or pump, he may have instant choice of chokes by the use of the Poly-choke, or quick change of chokes by the use of either the Lyman Cutts Compensator or the Weaver choke. But, for long ranges, full choke is best. True, birds are hit with the thin fringe of a wider pattern, but more are crippled than are killed by these fringe-of-the-pattern hits; and the occasional kills that are made in this way often tempt the shooter to shoot at still longer ranges—thus, further increasing the number of crippled birds. Only dense, full-choke patterns with fairly heavy shot can be depended on for clean kills at the extreme range of the gun.

Next, we come to the big guns—the guns intended only for pass shooting, or for very long-range jump shooting at either ducks, pheasants, or geese. After many years experimenting, both on the pattern board and on game, my conclusion is that a one-and-five-eighths-ounce load of Number 4 chilled or Lubaloy shot from an 80 per cent gun is required for average clean killing of big fowl or pheasants at seventy yards range. Number 4 shot from the one-and-five-eighths-ounce load from top performing guns will throw a killing pattern to that range, and Number 4 shot is about the smallest size that will carry sufficient pellet energy for certain penetration at such ranges.

Guns available of this type are the excellent Model 12 Winchester Magnum 12 bore pump; and the Ithaca, Smith, Fox, and Parker doubles, all made in Magnum 12 bore. The big Super 10 bores are made by Ithaca, Parker, Smith, and others. These guns throw the same one-and-five-eighths-ounce loads of Number 4 chilled or Lubaloy.

When these guns are carefully patterned to determine the load best fitted to their chokes, then we have a seventy-yard gun. True, all shotguns of whatever gauge will occasionally throw a blown pattern that will not kill to anything like such ranges; and, as a rule, the smaller the gauge and the smaller the shot size, the more apt we are to get an occasional blown pattern. Theoretically, the Super 10 bores should give a slightly better pattern with their shorter shot columns than the Magnum 12 bores, and pattern tests usually do show a slight edge in this favor. But, in practical field shooting, I never could determine any material difference—and this after extensive tests with fine guns of many makes in both sizes. All were fine pass-shooting guns for sixty- to seventy-yard shooting.

This leaves only the big Magnum 10 bore Ithaca. This gun was designed to be an eighty-yard duck or goose gun and it is just that; the only such gun I have seen under an 8 bore. There is no earthly use for the big gun for decoy shooting, or for any shooting short of sixty yards; but, for big geese, it will give a higher percentage of clean kills at sixty yards and beyond than will any smaller gauge. My own Ithaca Magnum 10 (built to order for Major Askins and numbered 500,000) throws excellent killing patterns of 85 per cent or better with Number 4 Lubaloy shot. Even at eighty yards, they are still killing patterns as far as even distribution is concerned, but actual trial on mallards showed that Number 4 shot did not have enough energy to kill with reasonable certainty beyond seventy yards. A change to Number 3 Lubaloy shot showed better results. The larger shot often did not pattern quite as well, and the patterns out at eighty yards had larger holes in them; but in actual ducks killed, results were better with the larger shot.

Eighty-yard passing ducks require a lot of lead! When I first got acquainted with the big gun, I seemed to need twenty to twenty-five feet of lead on straight crossing birds; but as I learned to handle and swing the big gun faster, the lead was cut to eighteen to twenty feet for such ranges. The big gun has a heavy recoil and weighs ten and one-half pounds, and the ammunition is expensive as well as both bulky and heavy; but the seasoned old duck shooter who can stand the recoil will have more actual fun killing a few fowl cleanly at long range, from seventy to eighty yards, than he would killing twice as many over decoys at close range. For such shooting, it's a great gun and a great load. And for the man who prefers pass shooting nothing else will equal its performance.

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A .30-'06 PISTOL

By O. T. LITTLETON

WHY NOT A SIDE ARM for hunting—a pistol that can be shot accurately up to two hundred yards, with a muzzle velocity of 2400 feet per second?

I undertook to make such a gun. The easiest and safest bet was to use a .30-'06 Springfield for conversion. Using fourteen inches out of the middle of an old barrel (which had been badly damaged near the chamber) necessitated turning and threading a sleeve to make the breech large enough to fit the Springfield frame. (This sleeve is made of proper steel to withstand the pressure.)

I made the chambering reamers out of factory-tapered reamers. Chambering, and adjusting the proper head space, are very important parts of job.

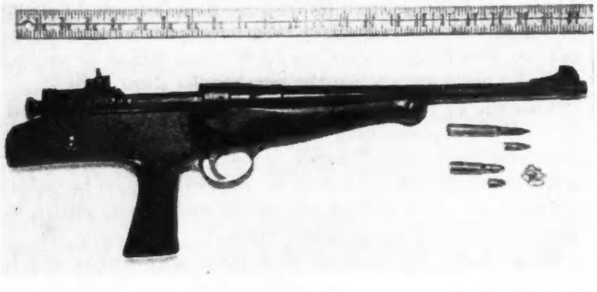
The trigger is extended forward four inches, which allows the magazine to contain five cartridges. One inch of the back of the magazine is blocked off to bring these short cartridges up to the proper position. The result is a two-hand pistol that is remarkably accurate up to two hundred yards.

The recoil is not at all uncomfortable, even with bullets as heavy as 198-grain. The direct recoil on the bolt causes the muzzle to flip upward, and the portions of the pistol back of the hand rock, preventing a direct drive on the trigger hand.

I use .30-'06 brass, shortened seven-eighths of an inch and renecked to .31 caliber. This enables me to use .32-20 jacketed bullets, to allow for the wear of the old barrel.

I have loaded and shot many different combinations of loads; bullets from 80-grain jacketed to 198-grain gas check. Six different kinds of smokeless powder were tested in these gradually built-up loads. To date, I have not blown a primer.

Here are a few of the loads and their results:



Powder		*Bullet*			*Muzzle Velocity*
Unique	13.2 gr.	Jacketed	93-gr.	.32-20	2000 f.s.
HiVel #2	32.0 gr.	Jacketed	115-gr.	.32-20	2400 f.s.
#2400	29.0 gr.	Jacketed	93-gr.	.32-20	2800 f.s.

You who have shot the same loads in rifles will not doubt their velocity. The flattened bullet shown offers further proof. It is the 93-grain .32-20, 2800 f.s. muzzle velocity, shot 200 yards against a dry sandbank. Using 150-grain and 172-grain solid-point jacketed bullets, with proper powder charge, penetration is as much as twenty-four inches in cross-grain pine.

If you make a pistol like this, DO NOT retain the original full-length cartridge chamber, for fear of a maximum rifle load being shot by mistake.

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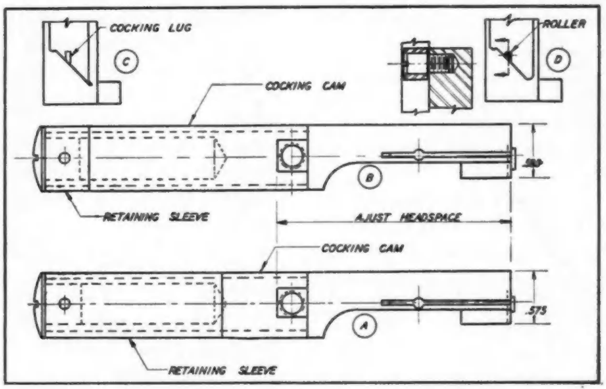
Custom-Tailoring the Model 75

By BILL NICKELS

I HAVE JUST FINISHED overhauling and rebuilding my Model 75 Winchester rifle, and now have what I consider to be the finest and smoothest working little rifle that it has ever been my pleasure to own. These rifles all have wonderful barrels, and are usually the answer to any rifleman's prayer in every way; but for some reason the action of this particular rifle seemed somewhat stiff. It was this fault that I set out to correct. I wound up by practically rebuilding the gun.

I purchased this rifle in 1941, and was immediately impressed by its superb accuracy. But there were other things about the action of this particular gun that did not please me so well. For one thing, the sear notch failed to hold properly. A bit of careful doctoring with a slip stone corrected this fault, and I tackled next the matter of bolt action. It was difficult to get the bolt to slide freely back and forth if the knob were grasped by the end. This made it necessary for me to apply the push or pull as near the base of the bolt handle as possible.



So altered, this gun became "one of the sweetest working jobs I own."

In looking for the cause of this, it became apparent that there was a slight wedging action between the cocking-cam sleeve and the receiver. This sleeve seemed to fit much too loosely, so I made another. This latter was of chrome-vanadium steel and with clearances much reduced. This only started my troubles mounting, and did not even begin to correct the trouble. Upon another careful check, I discovered that the bolt measured in the neighborhood of .575 inch and that the inside of the receiver measured .592 inch. This told me that my new cocking cam sleeve was not the only change needed.

Back to the pile of scrap steel I went, and this time came out with a piece of stainless five-eighths-inch rod for a new bolt. In a very short time I realized that I had tackled myself a real honest-to-gosh job of gunsmithing. I was handicapped at first by not knowing correct dimensions on the bolt, since production tolerances were involved. The turning was done very easily in the toolmaker's lathe, and milling was done by using a Cincinnati No. 2 and a vertical head laid horizontal, Woodruff-type mills being made for the various cuts. I like to make these Woodruff-type cutters by using bench-lathe milling attachment saws held on half-inch drill rod shanks by an Allen head cap screw and relieved washer.

No particular trouble was encountered in the making of the new bolt until I got to the firing pin hole. To do this, I first drilled a hole from the front the size of the tip of the firing pin, then I came in from the back with a "half" reamer to form the curved section hole. This little reamer gave me a bit of trouble at first. I finally licked it by chucking the reamer in the lathe collet and feeding the bolt against it by hand.

The drilled holes for pins and extractors are not too critical with the exception of one which is for the pin. This passes through the elongated slot in the firing pin to stop its fall just short of the back of the chamber in order to prevent damage in snapping. This pin should be very carefully located, so here is a trick I used to make sure of getting it properly placed. I purposely drilled the hole too far to the rear, and then, using a mounted wheel and the 25,000 R.P.M. grinder, removed the stock carefully in the *back* of the slot in the firing pin. I carried this until the projection distance of the tip was correct. After completing the machining of the bolt body, it was lapped to .595 +.000/—.001.

The next part to fall victim to my curious fingers was the receiver, which was easily removed from the barrel with the aid of a Howe barrel vise. Into the powdered green bone and charred leather it went for case-hardening, and I fired it at 1650-1675 degrees for three hours, then quenched it in the "bubble" bath for colors. It was ground and lapped out to .596 +.000/—.001. Receiver and bolt now fit perfectly, and work with velvety smoothness.

For the cocking cam, this time I selected a piece of N.E. 9442 steel which was given a heat treatment of 1550 degrees in neutral salt, quenched in a salt bath at 350 degrees, and drawn at 425 degrees for half an hour.* This gave a hardness of 55 (app.) Rockwell C. The quench in salt was necessary to prevent warping, as the whole side is cut out for cam surface, and what is left might tie itself in a knot with the regular hardening methods. In making this piece, I made it as in B (see drawing), twice as long as the factory piece shown in A, to be sure of getting away from any sidewise wedging action. I found the filing of this cam to be no little job in itself. I used a Gould & Eberhardt shaper, and mounted the centers on centers to cut around the locking lug where a lathe would not reach. The outside was ground and lapped to .595 + .000 and — .001, the same as the bolt.

My last change was on the firing pin. The factory pin makes use of a small lug riding the cam C for cocking. This sliding friction was done away with by spot annealing the lug and a small part of the rear of the firing pin and filing off the lug, which I replaced by a tiny roller as in D. This roller was fastened by a special screw going into the firing pin. This very tiny screw must be carefully made and heat-treated as it is only a #2-56 and must stand the strain of the firing pin spring. Ordinary oil hardening drill rod was used for the roller and S.A.E. 2340 for the screw.

The only part I didn't "tackle" was the trigger. That will come next.

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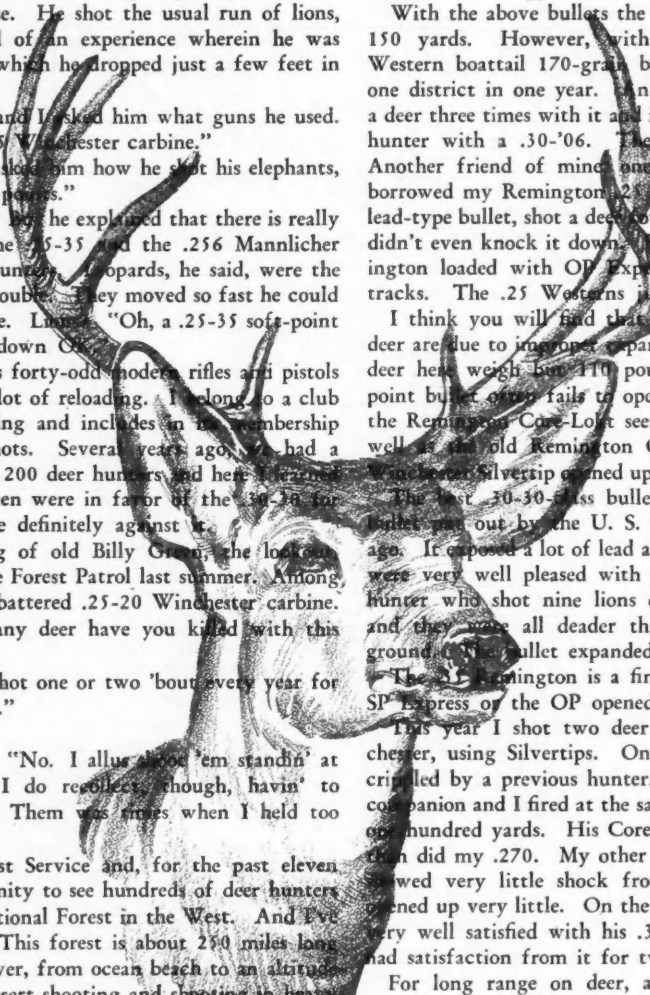
* Courtesy Lindberg Metallurgical Labs. of Chicago.

WHAT IS A DEER HUNTING

The first answer: *By* FRANCIS E. EVANS*



AN ENGINEER, just returned from three years in Africa, spoke at one of our club meetings some time ago and told us of wonderful hunting experiences in that big-game Paradise. He shot the usual run of lions, rhinos, et cetera, and told of an experience wherein he was nearly killed by a leopard which he dropped just a few feet in front of his rifle.

After his talk, a friend and I asked him what guns he used. He replied, "I used a .25-35 Winchester carbine."

We were amazed! We asked him how he shot his elephants, and he said, "I used hard points."

We were dumbfounded! But he explained that there is really little difference between the .25-35 and the .256 Mannlicher used by so many English hunters. Leopards, he said, were the only game that gave him trouble. They moved so fast he could not hit them in a vital place. [illegible] "Oh, a .25-35 soft-point in the head knocks them down OK."

I have owned as many as forty-odd modern rifles and pistols at a time and have done a lot of reloading. I belong to a club which does a lot of shooting and includes in its membership some high-ranking rifle shots. Several years ago, we had a meeting attended by about 200 deer hunters and here I learned that about half of these men were in favor of the .30-30 for deer. The other 100 were definitely against it.

I couldn't help thinking of old Billy Green, the lookout, moving into his post on the Forest Patrol last summer. Among his gear I saw an old and battered .25-20 Winchester carbine. "Billy," I asked, "how many deer have you killed with this rifle, over the years?"

"Oh," he replied, "I've shot one or two 'bout every year for the past twenty-five years."

"Ever lose any?"

He thought a moment. "No. I allus shoot 'em standin' at less'n a hundred yards. I do recollect, though, havin' to shoot two a second time. Them was times when I held too fur back."

Now, I am in the Forest Service and, for the past eleven years, have had an opportunity to see hundreds of deer hunters in action on the largest National Forest in the West. And I've seen the deer they shoot. This forest is about 250 miles long and includes all sorts of cover, from ocean beach to an altitude of 8,800 feet. We have desert shooting and shooting in heavy timber. In all, about 20,000 hunters take advantage of these facilities every year.

Since that meeting I've spent three seasons trying to find the reasons why there was such a difference of opinion on the .30-30. My conclusions are that the .30-30 is perfectly satisfactory under certain conditions.

It is perfectly OK with twenty-four-inch or twenty-six-inch barrels up to 200 yards if the Winchester full-sized soft-nosed bullet (I do not mean the Winchester tip-of-lead type) or the Remington Open Point Express is used. The old U. S. full-sized lead-tipped bullet was also OK.

With the above bullets the .30-30 carbine seemed OK up to 150 yards. However, with a tip-of-lead type, undersized Western boattail 170-grain bullet, I found twelve failures in one district in one year. An experienced friend of mine shot a deer three times with it and it ran off and was shot by another hunter with a .30-'06. The .30-30's expanded but a trifle. Another friend of mine, one of the best shots around here, borrowed my Remington .25 Auto and, with the same tip-of-lead-type bullet, shot a deer four times at 125 to 150 yards. He didn't even knock it down. He then reached for his .35 Remington loaded with OP Express ammo and dropped it in its tracks. The .25 Westerns just did not expand.

I think you will find that most failures of the .30-30's on deer are due to improper expansion of the bullets. Most of the deer here weigh but 110 pounds, and a hard-jacketed, soft-point bullet often fails to open up. On fifteen deer this year the Remington Core-Lokt seemed OK but did not open up as well as the old Remington OP Express. On two deer, the Winchester Silvertip opened up only moderately.

The best .30-30-class bullet I have seen was a .32 Special bullet put out by the U. S. Cartridge Company a few years ago. It exposed a lot of lead and was of full diameter. Hunters were very well pleased with it. I know of a mountain lion hunter who shot nine lions out of trees with this cartridge and they were all deader than mackerel when they hit the ground. The bullet expanded well and hit hard.

The .35 Remington is a fine deer cartridge but the old .35 SP Express or the OP opened up better than the Core-Lokt.

This year I shot two deer with my .270 Model 70 Winchester, using Silvertips. One was dispatched because it was crippled by a previous hunter. In order to test our loads, my companion and I fired at the same time from a distance of about one hundred yards. His Core-Lokt .30-30 made a bigger hole than did my .270. My other deer, though shot at fifty yards, showed very little shock from the Silvertip, and the bullet opened up very little. On the other hand, a friend of mine was very well satisfied with his .30-'06 Silvertip, and another has had satisfaction from it for two years.

For long range on deer, a very satisfactory load for the .30-'06 is one which places, in front of a charge of the new duPont powder, the U. S. 145-grain protected-point bullet. This should be loaded to a velocity of between 2,900 and 3,050 foot-seconds. It will open up nicely at 300 yards, but is too destructive of meat at short range.

The Model 70 Winchester leaves nothing to be desired

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* Of the U. S. Forest Service, with eleven years experience in the largest National Forest in the West.

RIFLE?

TWO ANSWERS TO AN EVER-RECURRING QUESTION BY TWO MEN WHO SHOULD KNOW

in so far as feel, action, and accuracy are concerned. But it is too heavy for mountain hunting, and a bit too long. After carrying it in the crook of my arm all day, I'm tired. My .270 Model 70 weighs more than eight and one-half pounds with sling, and the carbine weighs a full eight pounds. It's too much.

For a strictly deer hunting gun, I believe, a rifle should weigh not more than seven and one-half pounds and the barrel should be no more than twenty-two inches in length. This would be handier in the scabbard and in the brush. The weight should not be taken from the barrel (except from the end); but by using lighter metals in the butt plate, magazine floor plate, and elsewhere, by hollowing the butt-stock, cutting its dimensions, et cetera, I believe the right weight could be secured.

The old Model 54 Winchester carbine in .30-'06 caliber weighed about seven and one-fourth pounds. The stock was excellent. So good a gun was it that, at a turkey shoot out here some time ago, a young fellow beat a dozen of us armed with National Match Springfields. I suggest that the old Model 54 stock, or something similar, be placed on the Model 70, with either a twenty- or twenty-two-inch barrel. In .270 caliber, this would be a dandy deer gun.

I have sold my three Model 70's and have gone back to an old 54 in .30-'06 caliber. It weighs seven and five-eighths pounds. For long-range shooting I use a .30-'06 Remington Model 30 Express with a Weaver 330 scope on a Redfield Junior Mount. For a real light weapon, I have a .257 Roberts on a light Mauser action with a barrel by Sukalle, having the exact dimensions of the Model 70 Winchester. This rifle weighs seven and one-fourth pounds, has set triggers, and with a 6X Oigee scope and using the full-sized Remington bullet, it will shoot with my National Match Springfield. However, I wish the barrel were twenty-two inches instead of twenty-four. This would make for easier carrying in the car, in a saddle scabbard, or in hand in rough country, and would be better for fast snap shooting.

But, speaking of rifles, one of my friends here shoots wild cattle with a .25-35. Another, a state game warden, has had to destroy seventeen elk at various times and ranges. He used a .250-3000 with 87-grain bullets and thinks it's OK. I have a rebarreled .22 High Power Savage that was once a meat gun on a big ranch in Cuyana Valley. It has a hundred notches in its stock. Each means a deer.

After all, the trick is to hit your deer *right*, with a bullet that opens up properly!

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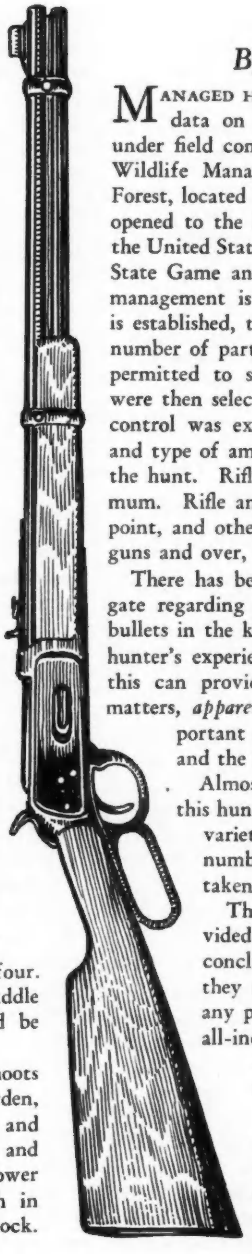

The second answer:

By CHARLES X. GANO *

MANAGED HUNTS OFFER an excellent opportunity to obtain data on the performance of firearms and ammunition under field conditions. In December of 1944, the Blue Ridge Wildlife Management Area on the Chattahoochee National Forest, located in the rugged mountains of North Georgia, was opened to the hunting of deer. The hunt was conducted by the United States Forest Service in conjunction with the Georgia State Game and Fish Commission. As the object of wildlife management is to harvest the annual increase once the herd is established, the take of deer was controlled by limiting the number of participants in the hunt. Any licensed hunter was permitted to submit an application. Two hundred hunters were then selected in an impartial public drawing. One other control was exercised in that the minimum allowable caliber and type of ammunition was established in the rules governing the hunt. Rifles of the .25-35 class were specified as a minimum. Rifle ammunition was restricted to soft-point, hollow-point, and other expanding-type bullets. Twenty-gauge shotguns and over, using single slugs, were also permitted.

There has been endless argument wherever hunters congregate regarding the efficacy of different calibers and types of bullets in the killing of deer. Many opinions are based on the hunter's experience in killing but one or two deer. At best, this can provide but limited data. To further complicate matters, *apparent* bullet performance is colored by such important intangible factors as the hunter's shooting skill and the mental state of the deer at the time it was shot.

Almost two hundred hunters actually partook in this hunt, which automatically assured the use of a wide variety of firearms and ammunition. With that number of hunters on hand, deer were sure to be taken under all sorts of conditions.

Thirty-six fine bucks were taken, which provided a fair testing sample from which to draw conclusions. Results are recorded here for what they may be worth to the hunter-rifleman, without any presumption on the reporter's part that they are all-inclusive and final. For quick reference, the data and observations are set down in tabular form. (See table on following page.)

As was expected, the .30-30 rifles were predominant, and accordingly accounted for the greatest number of deer killed with any one caliber. All of the thirteen deer killed with the .30-30 were taken with soft-point bullets. It should be noted that eight of the thirteen

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* Timber and Wildlife Management Assistant, Chattahoochee National Forest, U. S. Forest Service.

Caliber	*Type of bullet*	*Range in yards*	*Location of wound*	*Mental state of deer*	*Behavior when shot*
.45–70	405 gr. S.P.	25	Breast	Calm	Ran 50 yds.
.45–70	500 gr. L.	40	Shoulder	Calm	Ran 60 yds.
.38–55	255 gr. S.P.	20	Neck	Calm	Ran 40 yds. & shot again in chest
.38–40	180 gr. S.P.	50	Breast	Calm	Ran 70 yds.
.35 Rem.	200 gr. O.P.	45	Breast	Startled	Ran 80 yds.
.32–40	165 gr. S.P.	40	Heart	Calm	Dropped in tracks
.32 Spec.	170 gr. S.P.	60	Neck	Startled	Ran 300 yds.
.30 Newton	180 gr. O.P.	50	Breast	Calm	Dropped in tracks
.30–'06	180 gr. B.P.E.	37	Breast	Calm	Dropped in tracks
.30–'06	150 gr. B.P.E.	50	Abdomen	Calm	Ran 50 yds. & shot again in chest
.30–'06	180 gr. S.P.	38	Chest	Calm	Dropped in place
.30–'06	180 gr. S.T.	95	Spine	Calm	Dropped in place
.30–'06	180 gr. S.T.	50	Spine	Calm	Dropped in place
.30–'06	180 gr. S.P.	30	Abdomen	Calm	Ran 20 yds.
.300 Savage	180 gr. S.T.	25	Neck	Calm	Ran 50 yds.
.30–30	170 gr. S.P.	35	Heart	Calm	Dropped in place
.30–30	170 gr. S.P.	50	Shoulder	Calm	Ran 40 yds.
.30–30	170 gr. S.P.	40	Spine	Calm	Dropped in place
.30–30	170 gr. S.P.	35	Heart	Calm	Dropped in place
.30–30	170 gr. S.P.	51	Spine	Calm	Dropped in place
.30–30	180 gr. B.	75	Ribs	Calm	Ran 20 yds.
.30–30	170 gr. S.P.	75	Chest	Calm	Ran 50 yds.
.30–30	170 gr. S.P.	57	Neck	Calm	Ran 50 yds.
.30–30	170 gr. S.P.	65	Abdomen	Startled	Ran 30 yds. & shot again in neck
.30–30	170 gr. S.P.	40	Spine	Calm	Dropped in place
.30–30	150 gr. O.P.	50	Heart	Calm	Dropped in place
.30–30	150 gr. O.P.	45	Brain	Calm	Dropped in place
.30–30	170 gr. S.P.	75	Heart	Calm	Dropped in place
.30 Rem.	170 gr. S.P.	30	Spine	Calm	Dropped in place
.30 Rem.	170 gr. S.P.	45	Neck	Calm	Ran 30 yds.
.30–40	180 gr. S.P.	37	Haunch	Calm	Dropped in place & shot again in chest
7.62 mm.	150 gr. B.P.E.	50	Rectum	Startled	Ran ½ mile
.270	130 gr. S.T.	75	Abdomen	Startled	Ran 90 yds.
.250–3000	87 gr. S.P.	47	Shoulder	Calm	Ran 60 yds.
12 gauge	Slug	50	Chest	Calm	Dropped in place
16 gauge	Slug	35	Chest	Calm	Ran 50 yds.

Abbreviations: S.P. = Soft Point. O.P. = Open Point, B.P.E. = Bronze Point Expanding. B. = Belted, L. = Lead, S.T. = Silvertip.

deer shot with the .30-30 dropped and did no running after being hit. This is a surprising percentage. All of the eight were shot before the animals became aware of the hunter's presence and all shots were placed in the spine, heart, or brain. Of the other five deer taken with the .30-30, all ran between twenty and fifty yards after being hit. None of these were struck in a vital section of the body. One deer was shot after he had scented the hunter and turned to run. The first shot struck the animal in the abdomen without appreciably slowing the buck's pace. A second shot in the neck dropped him in his tracks after a thirty-yard sprint.

Six deer were accounted for by calibers which approximate the .30-30 in power: the .30 Remington, .32-40, .38-55, .32 W. C. F., and .35 Remington. Of these, the .30 Remington and .32-40 dropped the bucks in their tracks with heart and spine shots respectively.

The instance of the buck taken with the .32 W. C. F. is worthy of note because it illustrates the capacity of deer to carry on after sustaining mortal injury. The hunter and the buck saw one another at the same instant on a timbered ridge. They were sixty yards apart. With a sudden reflexive leap, the buck started to dash away from the hunter. Bringing his rifle to his shoulder in a rapid upward sweep, the hunter let off his shot. Without so much as a tremor to indicate he had been hit, the deer plunged downhill through a dense laurel thicket. Examination at the spot where the buck had been first seen showed much blood. The deer was found dead a full three hundred yards from the point where it had been shot. The bullet had almost completely severed the fleshy part of the neck. The spine itself was uninjured. In spite of a very severe wound, that buck tore its way through 300 yards of dense thicket. That's stamina for you! Note well, the deer was *startled* before being hit.

A fine old caliber, the .45-70, was also among those present. Three hunters carried rifles of this caliber; two of them obtained bucks. Both deer were unaware of the hunters and ran twenty-five to fifty yards after being struck in the shoulder and chest by the heavy slugs. Incidentally, these slow-moving bullets caused little or no spoilage of meat—an important consideration during these days of meat rationing!

An old reliable cartridge, the .30-40, was also represented at the hunt. Most of the rifles were remodeled Krags, equipped with sporting sights. Only one buck was killed by the .30-40. A haunch shot at thirty-seven yards brought the animal down and another shot in the chest finished him off. It is surprising how many .30-40 Krags are still in active use, even in this section of the country.

At this hunt the .30-'06 ranked next to the .30-30 in hunter preference. Six deer were taken with the .30-'06, using soft-point, bronze-point expanding, and Silvertip bullets. Four deer were dropped in place, two being killed instantly with spine shots while two had to be finished off with another shot as a matter of mercy, although they were incapable of rising after the first shot. Two other deer were struck in the abdomen. One ran twenty and the other fifty yards before collapsing.

One hunter, armed with a .270 Winchester, obtained a seventy-five-yard, broadside, abdominal shot. The wound was so severe that bits of intestine were left on the ground. When this deer was dressed the intestines were found to be so completely mangled that they literally flowed out of the abdominal cavity. Still, this badly wounded buck made its way through thick underbrush for a distance of ninety yards. This was another instance of the ability of startled deer to pack lead.

Only one individual was equipped with a rifle chambered for the 7.62 mm. Russian cartridge. He jumped a buck which headed downhill directly away from him. With the deer's white flag as a target, the hunter took a fifty-yard shot. The wounded buck left very little blood sign, and as it was close to nightfall, the hunter had to abandon his trailing. Next morning the buck was found a half mile away from the point where shot. Examination of the animal disclosed that the 150-grain bronze-point expanding bullet had entered just above the rectum, traveled the entire length of the body and emerged at the breast. Judging from the wound at the point of exit, the bullet had failed to expand. The heart was intact.

By far the most powerful weapon on the hunt was a .30 caliber Newton rifle. A chest shot from the fast-moving 180-grain open-point bullet caused the buck to give one convulsive leap and then fall to the ground in complete collapse. The bullet did not emerge from the deer's body.

Shotgun slugs were credited with two bucks. In both cases the performance of the slugs was satisfactory.

From these data the following conclusions were drawn:

(1) For Appalachian deer hunting where the average range is fifty yards and seldom over one hundred yards, the .30-30 and other cartridges in this class are quite satisfactory. Rabid detractors of the .30-30 may take exception to this statement, but the facts of the case stand.

(2) Startled deer are capable of taking severe punishment and then traveling long distances, even when wounded with powerful, modern cartridges. Unless you are an especially experienced shot and trailer, avoid shots on running deer.

(3) Assuming that you wish to keep the head intact for mounting, the spine shot is the only shot that will consistently drop a deer in its tracks. Heart and shoulder shots follow in the order of effectiveness. Abdominal shots, regardless of caliber used, usually fail to stop deer in their tracks, and at the best, make dressing a messy job.

(4) If tempted to use full-patch bullets for deer hunting because they are cheap or easily obtained, put temptation behind you. Bullets which fail to expand can go completely through a deer and still permit the animal to travel long distances, only to die a lingering death. Good sportsmen everywhere should condemn the practice.

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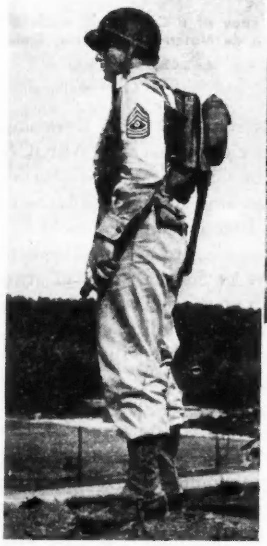
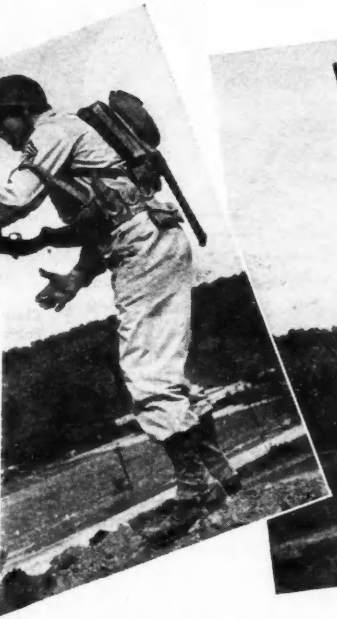
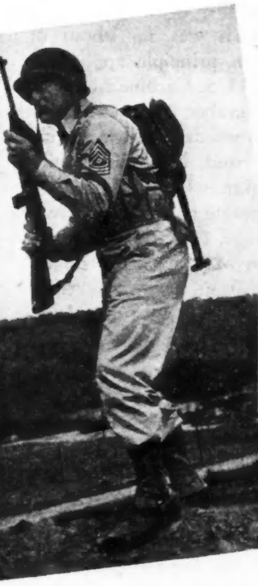
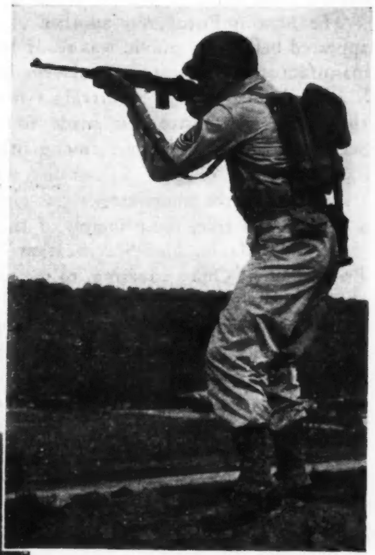
"QUICK DRAW" from the SLING CARRY

FOR THE SOLDIER . . . . . FOR THE HUNTER









By LT. COL. REX APPLEGATE

Many times a soldier or hunter has been unable to get a shot at a target of opportunity because he was unable to get his weapon into action in time from the sling-carry position on his shoulder.

The method shown here is a simple, easily learned sling carry for use in combat and hunting. It has the following advantages:

(1) The muzzle of the piece is down, consequently rain, snow, and other types of foreign matter are prevented from entering the bore.

(2) The muzzle of the piece does not stick above the shoulder and it is easier for the carrier to make his way through dense undergrowth without having the rifle barrel catch on branches, etc.

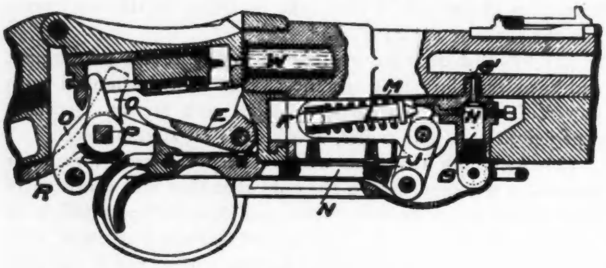
(3) The rifle carried in this manner conforms to the shape of the body and can be carried with more comfort than in the usual sling-carry position.

(4) After a short period of practice the average individual can take a slung weapon from this position and bring it into action for a shot faster and more accurately than the ordinary man can draw a pistol or revolver from his holster and fire it.

(5) It provides an alternate to the customary sling-carrying position when the shoulder tires.

"Something Old and Something New"

By W. H. B. SMITH



So you think it's new! Here's the short-stroke gas-piston principle of the U. S. Carbine M1—in a patent drawing by Hiram Maxim filed away back in 1891!

JUST ABOUT EVERYBODY KNOWS Maxim invented the machine gun and everybody has heard of the Maxim Silencer, but not many people know that, away back in 1896, Hiram invented one of the finest, simplest, blowback automatic pistols ever made. It was never manufactured commercially, though models were made in several calibers.

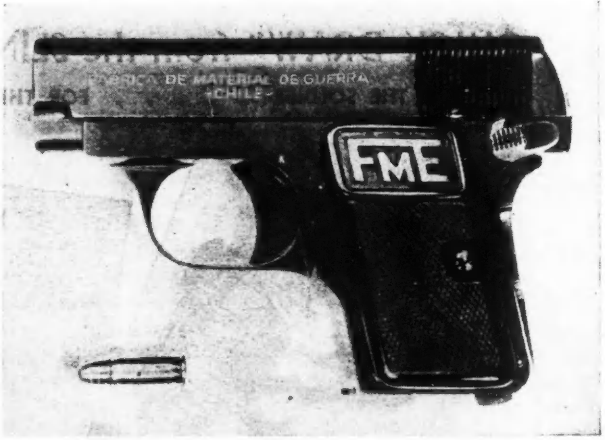
The Maxim Pistol was another of those inventions which appeared before the public was ready for it. Incidentally, arms manufacturers interested in developing automatic pistols to handle rimmed revolver cartridges may be surprised to learn that this early pistol was made to handle the .455 British Service Revolver cartridge, among others.

Another of Hiram's inventions which was far ahead of its time was the short-stroke gas-piston principle applied to a carbine and rifle, the principle of the U. S. Carbine M1.

In *1891* Maxim filed Specification Number 22859 with the British Patent Office covering, to use his words, "an arm which, though capable of being operated by hand, is provided with simple and efficient automatic mechanism which the pressure of the powder gases in the barrel will operate to open the breech after a discharge, eject the spent cartridge, cock the firing pin, and reclose the breech on the insertion of a fresh cartridge."

He made up specimens of his invention, using the then-popular falling-block Martini weapons fitted with his short-stroke piston. The diagram is from his specification. The specification says, regarding operation:

"When the cartridge is fired, the powder gases from the barrel have access through the orifice G' to the cylinder G when the projectile has passed the aforesaid orifice in its passage through the barrel. The powder gases act upon the inner end of the piston or plug H, and force it outward; they may act upon the said piston or plug either directly or through the medium of any suitable fluid or other material, such as tallow, for example, which may be placed in the said cylinder for the purpose of receiving the pressure of the gases, and transmitting it to the piston or plug H. When the piston or plug H is moved outward, as aforesaid, it turns the lever J upon its pivot pin. The short arm of the said lever compresses the spring M by moving the rod L endwise in the guide K, the long arm simultaneously operates the rod N to turn the action lever O upon the axis pin P, so that the said action lever, by means of the tumblers Q, turns the breechblock down, and opens the breech. The action lever, when operated automatically, moves away from the hand lever R, and does not affect it as the said hand lever is kept stationary by the usual catch, or by any other suitable means. The breechblock when lowered effects the cocking of the firing pin and operates the extractor in the customary manner, but the hook on the extractor E engages with the said block and keeps it down, in opposition to the action of the spring M which, therefore, remains compressed as long as the breechblock is down. The said hook releases the breechblock when a fresh cartridge is pushed into the chamber, and allows the spring M to extend, and to actuate automatically the two-armed lever J, so that the latter returns the small piston or plug H to its normal position in readiness for further operation and, through the medium of the rod N and action lever O, raises the block to close the breech."



Close copy of a Colt pistol, made by Fabrica de Material de Guerra, Chile.

CHILEAN "COLTS"

The photos herewith should interest Colt and Browning people, at least, since they show quite clearly that the FABRICA DE MATERIAL DE GUERRA, in Chile, is manufacturing practically exact copies of Colt-Browning pistols. Differences are confined almost entirely to the lettering on the stocks.

This type of manufacture is interesting to arms enthusiasts because it marks a radical departure in South American arms design. In the past, several attempts at original designing have appeared in some of our sister Republics. Imitations of Colt and Smith & Wesson arms have heretofore been turned out in fair and good qualities by the Germans and the Belgians, and in fair and poor qualities by the pot-metal boys in Spain.

But when South American manufacturers start turning out letter-perfect copies of American pocket pistols as "materials of war" at a time when South American mines and factories are being subsidized by lease-lend funds, one may well wonder what the future holds in store!

WOODEN BULLETS

Hardly a week goes by without somebody turning up stories of the use of "fiendish" wooden bullets by the Germans or the Japs. Those stories have been told and retold until they are almost legend, the usual yarn being that they are used to produce wounds from splinters not detectable by X-rays.

We hate to say it, but those yarns are almost pure malarkey. Having fired wooden bullets of French, Italian, German, and Japanese manufacture at paper targets at ranges of from fifty feet to fifty yards, we can tell you that *they are seldom dangerous beyond the range of the powder flash.* In no case did we find splinter penetration at fifty yards. In a few cases splinters did tear the paper at twenty-five yards, though this was the exception, not the rule. In most cases, powder burns and splinter marks registered on the paper at fifty feet.

Now, nothing is truly impossible in the field of weapons—(we've seen Colt revolvers to shoot the .25-20 cartridge; Lugers to shoot the .45 Colt Auto cartridge; Frontier Colts with gas pistons to eject a shell every time the revolver was fired; and hundreds of other examples of things which any sane expert will ordinarily tell you just do not exist)—so it is quite possible that somebody actually may have been hit with a wooden bullet at 100 yards, or that some individual actually did have a wound which festered because wooden bullet splinters could not be located and removed. But any such an instance would be merely the exception which proves the rule.

Wooden bullets are usually (if European) made of alder wood. They are usually hollow to insure quick disintegration and to help as a pressure seal. The powder is a special type which the Germans officially list as "manoeuvre powder;" in other words, powder for blank firing during training.

One of the greatest batches of phony "wooden-bullet atrocity" stories resulted from an experience of some of our soldiers on the French beachheads. According to these tall tales, the Germans were waiting for our boys with these wooden bullets which would prevent the use of X-ray on the wounded.

The true story is far more significant. A battalion of German troops equipped with new rifles were on manoeuvre, learning how to repel the invasion, when the invasion hit them! They did, in many instances, fire wooden bullets at our men. Their officers were so uninformed about our invasion plans that they had failed to supply the men with ball ammunition!

The one practical use made of wooden bullets is for launching rifle grenades. When any are found in front areas, rifle grenades will be found nearby. Recently, a number of members from overseas have written to inquire about oversize cartridges fitted with wooden bullets. In every case, these turned out to be standard enemy issue for use in antitank rifles for launching the standard rifle grenade therefrom.

GLASS BULLETS

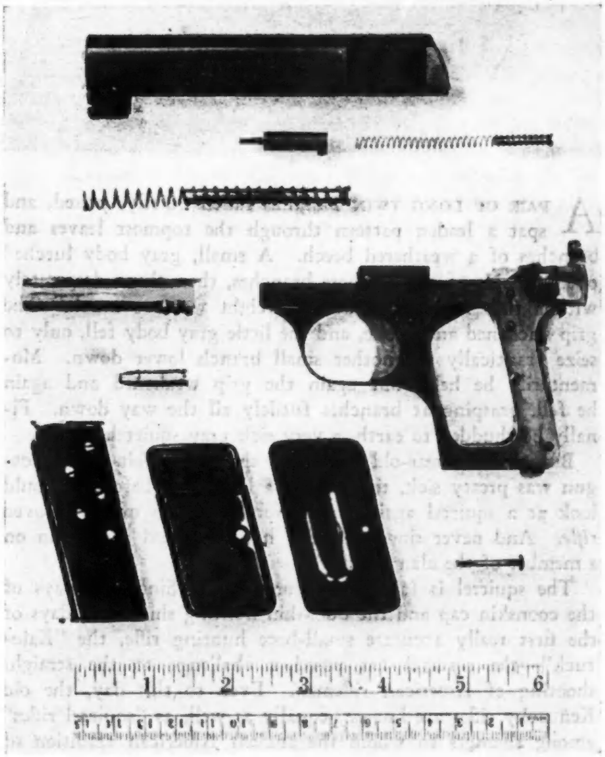
As stories of supervelocity cartridges in use by Germans and Russians continue to pour in, increasing mention occurs of bullets made of glass.

Once again research shows us how dangerous it is to say that anything is really "new;" for *in the year 1635*, one A. Rotsipen filed with the British Patent Office Specification Number 71, part of which deals with the manufacture of bullets of glass! (Rotsipen also applied for patents for the drawing and rifling of gun barrels—but that's another story.)

While it is possible to produce glass bullets, and jacketed glass-core bullets, which have terrific velocity and penetration, it is still a major ballistic problem to establish a reasonable bullet flight without keyholing—which, of course, immediately destroys both velocity and penetration. The light weight permits high velocity but murders stability.

With the development of plastics constantly increasing, we find the Army Air Corps announcing a glass-fabric plastic fuselage which will stop a .50 caliber bullet of the armor-piercing type; and which has such a low density that explosive bullets will not detonate when they hit it. Increasing the thickness of the fuselage, of course, results in ability to stop heavier bullets or projectiles.

We trail the Germans and the Russians in many developments, but not in glass. One of the ablest research organizations of all time is that of the Corning Glass Works. Their wizards have developed glass ball bearings which will stand greater pressure than comparable steel ones, glass coil springs, and hundreds of like developments. If they ever turn their facilities to arms and ammunition development in a big way, things will happen.



The Chilean gun disassembled. Note striking similarity to Colt parts.

NEW JAP WEAPONS

Every rifleman who has ever longed for what American manufacturers have assured us was "impossible"—a military-caliber rifle with a quick, cheap, and efficient takedown system—has had his prayer answered—by the Japs!

When, several months ago, we pointed out in THE RIFLEMAN the feasibility of quick barrel removal from a rifle, along the lines employed by the Germans, Russians, British, and Japanese in their Light Machine Guns, we hardly expected the Little Brown Brothers to beat us with the development. (Which just proves what an incurable optimist an (*Continued on page 27*)

FAIR GAME—FOR A RIFLE

By C. M. PALMER, JR.

Photos by courtesy NATURE MAGAZINE

The Fox squirrels and the grays (upper left) comprise the bulk of the game squirrels. They are game animals par excellence. Sly, tricky, it takes woodcraft to outwit them and it takes marksmanship to bag them.

A PAIR OF LONG TWIN BARRELS raised quietly, poised, and spat a leaden pattern through the topmost leaves and branches of a weathered beech. A small, gray body lurched over the side of one of those branches, then clung desperately with a tiny forepaw. But the weight was too much. The grip slackened and broke, and the little gray body fell, only to seize frantically at another small branch lower down. Momentarily he held, but again the grip weakened and again he fell, grasping at branches futilely all the way down. Finally he thudded to earth, a very sick gray squirrel.

But the ten-year-old kid with the old rabbit-eared shotgun was pretty sick, too. It was a long time before he could look at a squirrel again, even over the sights of his beloved *rifle*. And never since that day has he turned a shotgun on a member of the clan *Sciurus!*

The squirrel is fair game—for a rifle. Since the days of the coonskin cap and the buckskin hunting shirt—the days of the first really accurate small-bore hunting rifle, the "Kaintuck"—the squirrel has posed a challenge to the straight shooting of American riflemen. Even to this day, the old Kentucky rifles are known, equally as well, as "squirrel rifles" among shooters to whom the ancient American tradition of straight shooting is very precious. Back yonder, to "bark" a squirrel was the ultimate in frontier marksmanship.

Wherever, in these United States, you find mast-bearing trees—beeches, oaks, hickories, chestnuts, and the like—you'll find squirrels; tree squirrels, I mean. To the local riflemen, they're all squirrels, pronounced variously according to the locality. But to taxonomists, those scientific people who spend their time grouping and classifying animals, there are seven different groups of these tree squirrels. There are the eastern and western gray squirrels, the reds (including the Douglas and Fremont chickarees), the fox squirrels, and the tuft-ears or Abert's squirrels. And these seven groups are again broken down into forty-eight species and sub-species.

Of these, the grays are the best known because they are by far the most numerous and most widely distributed. The eastern gray squirrels *(Sciurus Carolinensis)*, divided into five species and sub-species, are distributed throughout the forested East from Florida to New Brunswick and Ontario, and west to Minnesota. The five eastern grays are: (1) The Southern gray squirrel, (2) the Everglade gray, (3) the Louisiana (or Bayou) gray squirrels, (4) the Northern gray, and (5) the Merriam Gray squirrel, in Minnesota.

These animals are active only during the daytime and, while the bulk of their food consists of mast (that is, nuts), they also take fruits, buds, seeds, et cetera, and occasionally such animal food items as young birds, eggs, and insects.

The western group of grays *(Sciurus Griseus)* includes three species. The first of these is known variously as the Western, the California, or the Columbia gray squirrel, and is located throughout California and in western Oregon and southwestern Washington; (2) the black-footed gray is found along the coastal regions of California; and (3) the Anthony gray squirrel is found in certain sections of southern California. These western grays are among the handsomest of squirrels, boasting much broader tails than their eastern counterparts. They are found wherever there are oaks and conifers, from the seeds of which they take their sustenance.

The small vociferous red squirrels, known also as chickarees or

Ever since the days when the tradition of American rifle marksmanship was first being written in the smoke of the long-barreled "Kentuckies," old bushytail has been one of the most challenging (as well as one of the most common) game targets for American hunters. Here's his family tree.

pine squirrels, are spread over most of the wooded sections of the continent. They are divided into three groups, the *Sciurus Hudsonicus*, the *Douglasii*, and the *Fremonti*.

The *Hudsonicus* tribe, scattered over the length and breadth of North American squirrel range, includes the Northern Red, the Bangs Red, the Southern Red, the Minnesota Red, the Black Hills Red, the Bailey Red, the Wind River Red, the Richardson, the Streator, the Vancouver, the Kupreanof, and the Alaska Red. The Douglas group, out west of the Rockies, is made up of the Douglas Chickaree, the Redwood, the Cascades, and the California Chickarees. The Fremont clan, of the southern Rocky Mountain states, boasts the Fremont, the Taos, the White Mountains, the Arizona, and the Mount Graham Chickarees.

The red squirrels are the most carnivorous of the tree-squirrel tribe. They are an abomination to many bird lovers because of their nest-robbing proclivities. While, like other squirrels, the bulk of their food is derived from mast-bearing trees and plants, they do love to vary this diet with birds' eggs and young birds. They are consequently *personae non gratae* in some ornithological circles. And many a hunter, too, has cussed out these noisy little tattletales, along with their feathered counterpart, the jays.

High in the coniferous forests of the southern Rockies and on down into Mexico is the gaudiest squirrel of all, the tuft-eared or Abert squirrel, *(Sciurus aberti)*. These large Beau Brummels of the woods flaunt long ear tufts and wear a broad chestnut band down their backs. But they are literally high and aloof because they stick to their mountains and are found rarely except between the altitudes of 5,000 to 9,500 feet in remote sections of the country. For this reason they are one of the least known of our *Sciuri*.

On the other hand, the fox squirrels are well known. They are the largest and probably the most varying in color (rusty black), but while they occur in many states along with the grays, they are not so numerous as the grays. (However, in Indiana last year the hunters bagged 1,531,118 squirrels and, it is said, eight out of ten of them were fox squirrels.) There are ten divisions in this group, including the Southern fox squirrel, the Mangrove fox, the Northern, the Bryant, the Western, the Bachman, the Texas fox—and the Apache, the Arizona, and the Huachuca Gray squirrels.

No wild target offers more of a challenge to the rifleman hunter than these keen, lively little animals. While they are really small game as far as size goes, they demand as expert consideration with the rifle as almost any game alive, provided, of course, that the rifleman is particular where he places his bullet. And the rifleman *should* be particular. The squirrel is real game and deserves to be treated as such. Anything but head or neck shots should be taboo.

Consequently, the best of rifle equipment is none too good to be used in the squirrel woods. Gilt-edged accuracy is very useful for such close shooting and this particular writer is not at all adverse to hauling a heavy-barreled Winchester 52 with a ten-power scope on such excursions. The satisfaction gleaned from clean shooting on keen targets such as these is ample reward for the extra weight in rifle and scope.

This is not to say, however, that this is the only equipment fit for squirrel shooting. I learned about squirrels long before I owned a 52 Winchester. While minute-of-angle accuracy is always desirable, it isn't always necessary and it

(Continued on page 23)

Old "tuft-ears" is the Beau Brummel of squirreldom, but he's an aloof and exclusive dandy high in the coniferous woods of the southern Rockies.

Bane of ornithologists and of hunters, too, the reds are not usually classed as game squirrels. But they make noisy and jittery targets when ammo is plentiful and they can usually stand some control activity.

A STREAMLINED SIGHT

By JOHN C. CLARK

To most every hunter his rifle is a thing of beauty—but beauty of line must be secondary to shooting utility and accuracy. To get the accuracy they require, many hunters choose micrometer sights of one kind or another—and such a sight on a strictly hunting arm (such as the handy, light, beautifully proportioned and streamlined .300 Savage) gives the rifle a lopsided appearance that detracts materially from its beauty. In the woods, the protruding mass of sight metal and adjusting knobs digs into the hipbone or ribs of the hunter afoot, or catches in the scabbard of the mounted nimrod.

Dissatisfaction sometimes induces thought. At any rate, it occurred to this hunter to wonder why a hunting rifle should be permanently cluttered with a couple of ungainly click micrometers merely to afford small sight adjustments during a half hour's preseason target shooting once a year. This query led logically to the idea of providing precise adjustments but incorporating them in a symmetrical, compact sight designed to become and appear as nearly as possible an integral part of the rifle. On the Model 99 Savage the proper place for a peep sight is on the tang, using the mounting screw holes provided. In the case of the .300, however, as some gun editors have well pointed out, the sight should not extend onto the stock behind the tang because of possible danger to the shooter's eye from recoil with this relatively high-intensity load in a light rifle. And if the design requires a screw driver to make adjustments, so much the better when nimble-fingered camp visitors pick up the rifle "to see how she feels."

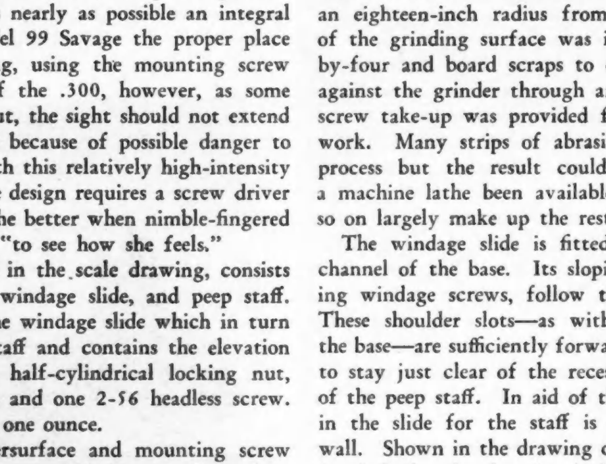
This sight, then, as indicated in the scale drawing, consists of three principal parts: base, windage slide, and peep staff. The base supports and guides the windage slide which in turn supports and guides the peep staff and contains the elevation adjustment. There are also a half-cylindrical locking nut, three 5-40 fillister head screws, and one 2-56 headless screw. Weight of the complete sight is one ounce.

The base has a curved undersurface and mounting screw holes to fit the rifle tang. The principal feature of the base in the working sight is its flat top in the form of a shallow cross channel leveled fore and aft to parallel the sight line. This level, if carried forward, would meet a line through the bottom centers of the mounting screw holes at an angle of twelve degrees. The part-moon-shaped recess at the rear of the channel runs through the base and gives clearance for the peep staff's lower end, which extends below the slide in the assembled sight. Just ahead are two threaded holes angling inward in depth (twenty-two and one-half degrees to the vertical) for slide (windage) screws. While the drawing is to scale, it will be noted that the top view of the base presents true dimensions only for the flat top area, the remainder being foreshortened.

Shaping of the base's underside in a double concave curve to fit the rounded tang proved entirely feasible with simple tools, and this was the initial operation. In a wood-turning lathe a piece of two-by-two some six inches long was turned to leave in the center a raised "grinder" one-half inch across to be charged by winding a strip of emery cloth around and catching the ends in a slot with a wedge. With worn medium-coarse abrasive cloth in place, the grinder's diameter was one and eleven-sixteenths inches. A swinging carriage on an eighteen-inch radius from its pivot to the farther side of the grinding surface was improvised from pieces of two-by-four and board scraps to carry the work back and forth against the grinder through an arc of about two inches, and screw take-up was provided for gradual advancement of the work. Many strips of abrasive were exhausted in this slow process but the result could hardly have been better had a machine lathe been available. Routine drilling, filing, and so on largely make up the rest of the sight's construction.

The windage slide is fitted to move snugly in the cross channel of the base. Its sloping shoulders, slotted for opposing windage screws, follow the well-known Redfield design. These shoulder slots—as with corresponding screw holes in the base—are sufficiently forward of center to enable the screws to stay just clear of the recess in the base for the rear half of the peep staff. In aid of this arrangement, the round well in the slide for the staff is placed next to the slide's rear wall. Shown in the drawing of the slide, low in the rear face, is a hole for the elevation lock screw. On assembly, the head of this screw finds clearance space in the partial cutaway of the back rim of the base cross slot indicated in the base plan.

References already made to the peep staff will have suggested its place in the general scheme. The round staff is secured in position in the slide by the locking screw and half-cylindrical nut shown in two views in the "lock" drawing. By referring the upper view to the slide drawing immediately above, and the lower to the staff drawing just below—bearing in mind the straddling of the screw by the forked half-cutaway staff—the assembly and function become clear. In



Three views of the Clark sight illustrate its size and neat appearance.

order to fix the position of the lock nut against variation, the smooth turned end of the lock screw extends into a snug recess in the forward wall of the staff well, as shown. The peep staff drawing shows dotted lines running up into the forward half of the staff to indicate a hole tapped for the headless elevation screw. Any projection of this screw will bear on the top of the locking nut in its fixed position. This provides definite and accurate elevation adjustment. Loosen the locking screw, remove the staff, turn the elevation screw in or out, replace, and lock. On the rifle shown, a half turn of the elevation screw changes the point of impact on the target a little more than one inch at 100 yards. (It is assumed that RIFLEMAN readers will readily translate screw-thread-governed sight travel into corresponding definite correction on the target at known distances.)

Definite windage adjustments are simple and easy once the scale is worked out. That the slide, carrying with it the peep, may be moved by loosening one windage screw and tightening the other is clear enough. To facilitate this movement these screws are provided with small washers with well-rounded edges. The amount of movement for, say, a half turn depends not only on the number of threads per inch on the screws but also on the angle of slope of the shoulders of the slide. Only the latter is any trouble. With a given shoulder angle to the horizontal, how much more motion will there be than if the screw travel itself measured all the motion (as with the elevation screw)? Any Trigonometry table of the functions of angles provides the cosecant (csc) value for the angle of slope, and using this as a fixed factor with which to multiply the amount of screw travel gives the total amount of slide travel. With tables not listing cosecant values the sine value may be divided into unity, or one (1), to arrive at the desired factor.

Applying this to the sight illustrated, where the slope is twenty-two and one-half degress, a change of striking point on the target of a fraction over two inches at 100 yards for one-quarter turn was calculated and demonstrated by firing. Screws of finer thread than forty would aid fine adjustments; but changes as small as one-eighth turn can readily be made. Possible elevation and windage travel each total somewhat more than one-eighth inch which is sufficient for the few commercial hunting loads available for the .300. No alteration in the front sight was made.

As contrasted with its rather involved description, the sight itself is essentially quite simple. The chief limiting difficulties in its design were inherent in the very small usable space from tang up to normal sight line, and in the width of the tang at the mounting point. However, these limitations, baffling as they seemed at the outset to an amateur sight maker, so confined the planning as to lead to the very thing sought: a very compact and sturdy sight with the eye-pleasing feature of symmetrical outline.

The general plan could be adapted to other rifles by redesigning to meet their special characteristics.

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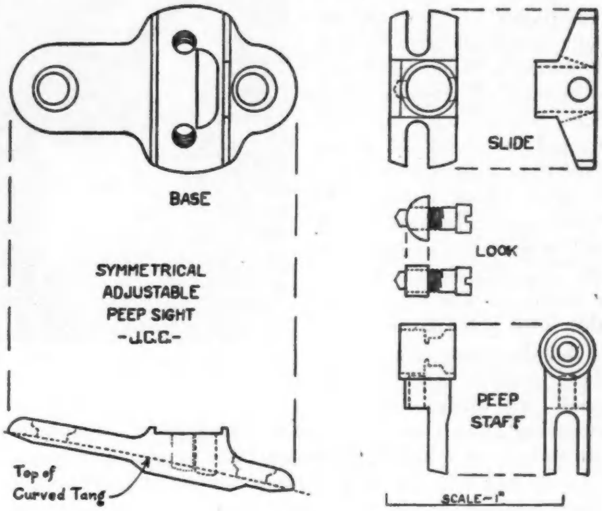

Fair Game—For A Rifle

(Continued from page 21)

certainly is not always available. Any reasonably accurate rifle with suitable ammunition can be a good squirrel rifle.

The favorite squirrel rifle of *this* would-be squirrel hunter is a very fine muzzle-loader which will do a nice job of "barking" a squirrel—if you hold it right. This job is a percussion lock masterpiece of one P. J. Simpson, of New York. It carries an octagonal barrel bored for a ball of about .36 caliber, in a half stock of mahogany. This is inlaid with fine silver decorations and has a butt plate and trigger guard of brass. (It was pictured on Pages 10 and 11 of the July, 1943, issue of AMERICAN RIFLEMAN.) A day on a certain hickory ridge of the Green Mountain state with this baby for company is something to dream about!

Before getting away from this subject of squirrel shooting, there is one big gripe that must be aired. Why, I don't know, but the loading companies discontinued the best squirrel load in existence, for my money, when they cut from their lines the .22 Long Rifle hollow-point regular. This was the perfect squirrel cartridge and its absence is keenly felt by other shooters as well as myself. I sympathize with the desire of the manufacturers to simplify their line of cartridges, but why take the one really fine squirrel load? There are other cartridges I could suggest and places I might suggest they be put, (the .22 Long, for example); but I'll refrain. . . .

Yes, the squirrel is fair game—for a rifle. According to the U. S. Fish and Wildlife Service there were 22,345,906 of these fine little game animals taken during the hunting season of 1942. That gives a fair idea of their importance as game animals. How many do you suppose were taken with good clean head shots from rifles?

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HANDGUNS for HUNTERS

By GEORGE W. RICE

POSSIBLY BECAUSE reputable sport magazines have consistently avoided discussion of the uses of handguns for hunting, many handgun-loving sportsmen have failed to make use of a valuable addition to their hunting equipment—while others have, out of sheer ignorance, brought the handgun into disrepute by using it unwisely.

Let's consider the handgun as a hunting arm, first, from the standpoint of its killing power. The .22 Long Rifle cartridge has a ballistic-table rating of 168 pounds of energy. This rating often breeds a feeling bordering on contempt for this "puny" cartridge, but its actual performance merits a sincere respect! I know two elderly men in different sections of northern Maine who make a business of trapping black bear. Both of them kill these trapped bear with .22 pistols *fired from a distance of a few yards*—a deliberate shot to the brain—and neither man has yet had to fire a second time. On this kind of a shot, it is more a matter of where you shoot than what gun you use.

—From a painting by Dan Smith. Courtesy of Smith & Wesson.

But the misuse of a .22 caliber is probably more often the result of careless handling, stemming from a notion of small killing power, than from attempts to use the gun on game too large for such a cartridge. The .22 will kill, and a better understanding of its deadliness might result in more careful handling of such weapons and the saving of many lives.

Much has been written about the remarkable accuracy and superior killing power of the .270 Winchester. Hunters tell of kills made with this rifle on moving game at 400, 500, even at 600 yards. I do not question these stories; they are undoubtedly true, but I want to draw a comparison. Remington tables show that the 150-grain Hi-Speed bullet, starting with a muzzle energy of 2,560 pounds, loses 495 pounds in the first hundred yards. By the time the .270 bullet has passed 400 yards, the remaining energy is only a little greater than the .357 Magnum revolver's muzzle energy (800 pounds); and beyond 500 yards it drops *below* that energy.

When the .270 sheds its speed, it loses the shocking power which is so effective in stopping game. When its speed drops to the 1,510 feet per second of the Magnum revolver load, the effect of the two cartridges on game is quite similar.

If other popular and powerful modern rifles, such as the .348 Winchester, are used for comparison, the revolver makes an even better showing. This rifle starts a 150-grain bullet with 2,765 pounds of energy. But that bullet loses 875 pounds in the first hundred yards. At 300 yards, its remaining energy exactly equals the muzzle energy of the Magnum revolver.

Remember that both of these modern rifles do kill big game frequently at the ranges mentioned, and your respect for the tremendous power of the .357 Magnum should increase. . . . Remember also that buffalo hunters used to kill those huge animals with the old Colt revolver from a horse running beside the buffalo. The cartridge they used had only half the power of the Magnum. . . . The .44-40 cartridge which, in its day, killed every kind of game on this continent, has 510 pounds of remaining energy at 100 yards and 390 pounds at 200 yards. By comparison, the .357 cartridge, when properly used for close shots, looks like a giant killer!

Sober reflection tells you that clean, quick kills on game are *constantly* made with bullets from all kinds of guns when the remaining energy has dropped to from 400 to 800 pounds. However, these kills occur with certainty only when the bullet is placed in the chest cavity, neck, or brain *and should not be attempted when distance, wind, or the ability of the shooter make such placing largely accidental.*

This brings us to the main question of the proper use of a handgun in hunting. Consider a squirrel hunt in which meat for the pot is secondary to the sport obtained. To some of us the sporting element diminishes as percentage of the certain kills increases—as it does when using a good .22 caliber rifle. We like to learn more about the habits of wild life, to learn to stalk the game better, and to shoot so that the game will either be cleanly killed or cleanly missed. Here, a handgun is at its best; and you will be pleasantly surprised to learn that increased hunting skill rapidly makes up for the handicap you assume with the handgun. You may not always reach your limit, but you will easily get all the game you need—saving some for that future trip.

The .22 caliber is satisfactory for rats, squirrels, and grouse, and for use on the trap line, on treed racoons, and on rabbits. It may be a surprise, but unless you can shoot the head off of a grouse, the .22 leaves too many wounded birds. The vital portion of all birds covers considerably less of the total area than is the case in animals, and is hard to locate.

Stepping up from the .22 caliber, let's consider the .38 Special. Using a revolver of this caliber with light handloads, midrange loads, and full loads, we have a distribution of power for a wide variety of uses, including grouse, jack rabbits, foxes—plus enough real power for protection in emergencies.

A handgun has two important advantages over a rifle.

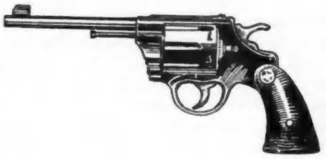
Strapped on your belt, it is light and leaves both hands free for still camera or moving pictures. Second, it is always with you for instant action. You will never find it the other side of the fire or leaning up against the tree out of reach just at the moment you need to shoot. If wounded game ever puts you up a tree, the handgun will still be with you.

Carried by big-game hunters for emergency use, there is no handgun that compares with the .357 Magnum revolver. It also shoots the .38-44, the .38 Special (full load or midrange), and light handloads. You can have a load starting with twice the power of other revolvers and graduating down to one a little stronger than a .22 Long Rifle. Fifty-yard groups averaging 1.83 inches, and a Sharpe-type bullet producing the utmost in shock, make an ideal arm for this purpose.

The revolver of ample power has a definite place as an auxiliary to the rifle when carried in the big-game field for emergency use. Its killing power *at short range* is often amazing. I know a sportsman who hunted in Africa for many years. On one trip, he was charged by a huge lion. His single snap shot before he was knocked down only wounded the lion, which grabbed him by the shoulder and dragged him toward the heavy grass. With his free hand, he drew a .44 Special revolver, placed the muzzle in the lion's ear, and pulled the trigger. . . . His only remaining problem was in getting to a hospital. Clear thinking and cool courage would have meant nothing if the revolver had not been strapped on.

At present, a new type of hunting is rapidly gaining in popularity—one that has a twelve-month open season. I speak of taking moving pictures of both large and small game. Weight and the necessity of having free use of both hands often prohibit the rifle on such trips, but no man should ever attempt to photograph big game without having a heavy revolver on his belt for emergencies. Wild boar on some of our reservations can be very dangerous to an unarmed man. Moose and elk often charge; and, once in a great while, a buck deer will do so. I once spent a very uncomfortable time behind an apple tree with a big and angry buck two or three feet away on the other side. I finally talked him out of his intention, and his going had my heartfelt blessing. Again, a revolver would have provided an easy solution.

That things sometimes happen very suddenly and unexpectedly, I know from experience. Having shot a black bear at 100 yards with a .300 Savage, I leaned the rifle against a tree and started to take pictures of a bear that looked very dead. While taking a picture at ten or twelve feet, I was startled to see the bear suddenly come up facing me, his teeth clicking. The picture taking stopped promptly and a revolver shot two inches above his eyes ended the action. . . . One may carry a sidearm for a long time before its value is proved, but when the need does come it may be mortally urgent.



The question of killing deer with a handgun is a subject long neglected. In the heavily wooded northeastern states and Canada many deer are so killed each year by hunters proficient in woodcraft. During my early life I spent considerable time the year round trying to get as close as possible to deer and studying their habits. Many times I have been within five to thirty feet of deer. It is not always necessary to sneak up on them. If you know the country, it is often easier to so place yourself that the deer will sneak up on you.

To the hunter who enjoys this type of hunting, a Magnum revolver proves an excellent weapon with plenty of power. Its 800 pounds of *muzzle* energy exceeds the 100-yard energy of those old favorite deer rifles—the .44-40 with 510 pounds and the .38-55 with 750 pounds. Even that grand old .45-90, Theodore Roosevelt's favorite big-game rifle during his ranching days, has only 790 pounds of energy remaining at 200 yards, yet it proved a consistent killer at that range.

There is one way the handgun can play a very important part in every deer hunting trip. Several of our best writers have recently pointed out the importance, in hunting moving game, of training the trigger finger for properly timing the shot. Eighty per cent or more of all handgun shooting is in training the trigger finger to time the application of smooth pressure. Practice of any kind with a handgun will positively improve every shooter in timing rifle shots on moving game.

Hunting deer with bow and arrow is a newly accepted sport rapidly being popularized. In accuracy, in deflection by brush, in striking energy, and in trajectory the revolver has a sharp advantage over the arrow. The killing effect of either is efficient. Both methods are now indulged in and, when properly conducted, both furnish the utmost in real sportsmanship. But both weapons are subject to serious misuse when used on game larger than deer, or at ranges where energy is low and accuracy in placing the shot is only a matter of luck. The handgun would be the less frequent offender because of its several advantages.

No method of deer hunting leaves as much wounded game as buckshot used at forty yards or more. Small bullets with power comparable to the .22 Long Rifle, yet entirely without accuracy, thrown in a large circle, are bound to make some clean kills, but leave many deer wounded. Heavy, accurate, and powerful bullets from a handgun are so much more effective and humane that their superiority over buckshot, at all hunting distances, is fully established.

Most of our activities are formed or governed by our mental reactions. Give most men a shotgun with buckshot and, knowing its shot pattern covers a large space, they become careless in their aim. Give them a powerful rifle and, feeling that it will kill regardless of where it hits, they, all too often, forget to pick a vital spot for the shot—putting most of their attention on the heavy recoil with usual results! Give the same men handguns and, instinctively, they will take much more pains with an accurate aim, picking a vital spot, *and working into a closer and better position.* The reason—because mental reactions follow a human pattern.

Once we understand what our weapons will do and where misuse starts, the problem of conservation will have reached the peak we now strive for and good sportsmanship will reach a new high. Over many years I have frequently hunted deer with a revolver. So have my friends. Over all this period not one single deer was shot with a handgun and left wounded. Only one was shot more than once.

Hits with heavy revolver loads in a circle six to eight inches in diameter on a deer's chest cavity will make quick, positive kills. An average shooter can consistently place shots in such a target at twenty-five to forty yards, and an expert can make certain kills up to seventy-five yards. Accurate and complete knowledge of gun performance, plus good woodcraft, prevents misuse of any weapon. So used, a handgun pays high dividends in pleasure, sportsmanship—and game. ◆ ◆ ◆

REVIVING THE ROSS

By H. V. STENT

IN MANY WAYS, the ideal rifle action is the straight-pull bolt. It is much superior to any turn-bolt action in speed, smoothness, and handiness of action, yet it has the same strength and accuracy. In pre-Springfield days, a straight-pull bolt, the 6 mm. Lee, was the standard rifle of the U. S. Navy. In pre-Hitler days, the Austrian army used the straight-pull Steyr-Mannlicher for many years.

By far the best known of all straight-pull bolt actions in America, however, is the Canadian Ross, largely a copy of the Steyr, as the Springfield is a copy of the Mauser. Its inventor sounds like a typical British society aristocrat—Sir Charles Henry Augustus Frederick Lockhard Ross, Bart., of Balnagorin Castle, Kildary, Rosshire—educated at Eton and Cambridge, Captain in the British Army, thrice married, twice divorced. But he was also an engineer of note, technical adviser on small arms to the Canadian government; and his rifle and cartridge—the .280—were, in many ways, far ahead of their time.

The very first Rosses—Sir Charles got his original contract to supply the Canadian militia in 1902, after having experimental actions built in New Hartford, Connecticut, and by Lancaster of England—were not so hot. The North West Mounted Police had 500 of them, and at times the action would fly open when the butt was slammed on the floor in drill. Colonel Richard Cartwright, at the time Director of Musketry Instruction for Canada, was inspecting the products of Ross' new Quebec factory for the army, and he told me that the earliest Ross rifles were very poor gas-pipe affairs.

"Finally they did make a real rifle, though. You could bury it in mud, dig it out, and give it a rough cleaning, and it would work. But Ross had to make some changes, and the rifle the army finally took overseas had those damned threaded lugs."

The "real rifle" was the Model 1905, Mark II, which had solid lugs on the .303, although it was also put out in .280 caliber with threaded lugs. The Mark III had threaded lugs on both calibers, and this was the gun that enraged Canadian troops by jamming during World War I. It is also the Mark III which has been accused of blowing open; never the Mark II, to my knowledge. Many consider the Ross Mark II** to be the best rifle Ross ever made.

The earlier models are pretty well out of circulation now, so when people refer to a Ross rifle they usually mean either the Mark II or the Mark III. And while these, like all weapons, have their defects, they have a lot of good points, too.

That straight-pull bolt, for instance, is about the only action which combines the strength and accuracy of the front-locking bolt with speed and handiness of operation comparable to the lever and slide. The Ross trigger pull is superb. So is its accuracy. The .303 was a favorite sniper's rifle in the first war, and remains a popular Canadian match rifle. The .280 was so effective in Empire competitions that it was technically disbarred. It is said to have been capable of three-inch groups in machine rest at 500 yards, which is no mean feat for any rifle.

Just last year an inquiring individual in the Canadian army picked a very tight-bored .303 Ross out of the armorer's stores, rechambered it for the .30-'06 cartridge, and got one-inch groups at 200 yards. Yes, those Rosses will shoot.

As for strength, experimental models are said to have withstood pressures of 100,000 pounds. With massive breeches, generous locking lugs, and heat-treated steels, the Ross is probably one of the strongest actions made.

In sporting models it was exceptionally well stocked for those days, and up here in Canada the Ross is very popular as a sporting rifle, either in original sporter designs or cut-down military models.* Old-timers are apt to swear by a Ross, and many a hunter of wide experience claims that it is the best sporting rifle of them all.

Had it not been for the unforeseen circumstances and two small avoidable errors, it might have proved entirely adequate as a military rifle, too. Who could have foretold that World War I would be fought in trenches, where accuracy did not count nearly so much as shortness and handiness, and where mud and dirt made simplicity of action of supreme importance? Who could have expected that ammunition would be needed so badly that cartridges would be made with far more than peacetime variations in size and quality? Get a little mud and dirt into that Ross action—and the Mark III had seven surfaces on its locking lugs, instead of two, to catch dirt—add oversize cartridges, plus an overheated rifle, and a tendency of the Ross action to bind when overheated—and you can see why Ross rifles jammed. McBride writes in Crossman's "Military and Sporting Rifle Shooting" that he saw men hammering Ross bolts with blocks of wood or jumping on them—with tears of exasperation streaming down their faces. With two of the three Canadian divisions in France, the Ross became extremely unpopular, to say the least.

That tendency of the action to bind or freeze when overheated was one of the avoidable errors. But, when the trouble in the trenches became known, the Canadian government, instead of ordering a change in the bolt design, had the Ross factory overbore the chambers of the next 100,000 rifles, from .460 to .462 inch diameter. Later on, this was increased again to .464; but it did not stop the jamming, and in June, 1916 the Ross was finally recalled from army use, there now being sufficient Lee-Enfields to equip Canadian as well as British forces. Contracts with Sir Charles Ross were cancelled, manufacture of the Ross rifle ceased, and his Quebec factory was expropriated by the government. If your

QUICK ON THE TRIGGER

. . . Tank commanders, armed with pistols in addition to or instead of tommy guns, would often find such side arms of inestimable value.

Tommy guns are too clumsy to be utilized from a tank. The tank is merely a storage place for the guns until the tank crew actually dismounts. If a situation requires that an individual weapon be used from a tank, what could be faster than for a man literally to snap out a pistol and fire instantaneously? Naturally, he would have to be adept in the use of the weapon and thoroughly trained.

Here is an incident which illustrates this point: One tank commander had opened his turret to dispose of his brass, when he found himself face to face with a Jap who had jumped up on the rear deck and was about to throw a hand grenade at him. The tank commander whipped out his pistol, which he had acquired by a "midnight requisition," and shot the Jap. . . . Lt. W. W. Chiprin, Tank Bn., in *The Cavalry Journal*.

Ross lets fired cases swell noticeably, this overboring is probably the reason; but it does not affect their accuracy.

The other avoidable error was what Crossman calls "the asinine blunder" of making some rifles with the extractor lug slot cut to a sloping instead of a square end, so that it is possible to disassemble the bolt on these rifles—if anyone wants to go to that much trouble—and reassemble it wrongly so that they will go into the rifle but will not lock.

Whether any Rosses actually did blow up from a wrongly assembled bolt, I sometimes wonder. Many rumors exist, but I've never found any proof of it.

Interesting in this connection is the testimony of two men who, as armorer-sergeants with the Canadian army in the first World War, saw a great deal of use of the Ross rifle. One, Lindsay Elliott, wrote me in 1938, that he personally knew of several cases of Rosses blowing out even when the bolt was properly assembled, and many cases of blowouts with the wrongly assembled bolt.

The other, Clyde Stewart, is again armorer-sergeant in this war, on the Pacific coast where many old Rosses have again been issued to troops. And in November, 1944—after five more years of the Ross—he told me that he had never found a single case of its blowing out. More, he and a fellow armorer once went over all the hundreds of Rosses in a big armory, disassembling and reassembling bolts, trying to get a combination so badly worn that it would fire when inserted wrongly. They tried out each bolt with a dummy cartridge having a wax primer, and never got a single impression of a firing pin.

Probably Sir Charles Ross, though he sued the Canadian government for three million dollars for the expropriation of his factory, was not so much put out. He must have done well out of the war; the Canadian government paid him over four million dollars in one year for rifles, and his factory was going full blast until 1916. His suit, settled out of court, would net him considerably more. He retired in comfort, and died in Florida in 1942, at the age of seventy.

But the .280 Ross, gentlemen, is no slouch of a cartridge even today, forty years after its birth. When introduced, its ballistics were breath-taking. The 143-grain bullet was loaded up to 3,250 feet per second; the 150-grain bullet was given 3,000 feet; and there was a long 180-grain with a jacket of mild steel—another Ross innovation that our ammunition companies are only now beginning to copy—at 2,850. All these velocities are with thirty-inch barrels, and would be reduced some fifty foot-seconds in the sporter, which was standard in twenty-eight-inch barrel.

Few of our standard cartridges today are as modern as that .280, and darned few have as good a game bullet as the famous 143-grain copper tube. Called by Crossman "one of the most murderous game bullets ever designed," it had such tremendous smash that game hit with it seemed to wilt in its tracks. Mattern wrote that it was capable of "shooting a bear's leg off, or letting daylight clear through him sideways." This Ross copper-tube bullet had no lead core; the hollow nose extended nearly half an inch in from the tip of the bullet. As a result it mushroomed completely and reliably. With its high velocity and good sectional density, the bullet had both tremendous explosive effect and good penetration, and no one who has ever used it fails to speak highly of it. English gunmakers still chambered their rifles for the .280 Ross up till 1939, and it seems a pity that we in America let both cartridge and bullet construction drop into oblivion when we had nothing that could take its place.

There are still a lot of Ross sporters, both .303 and .280, in use in Canada. This war has brought a revival of the military models, too. Thousands of them, Marks II and III, were taken out of storage and issued to the militia, and to regular troops until they could be replaced by U. S. 1917 .30-'06's, and more recently by new Lee-Enfields. There seems to have been no complaint about them, save perhaps as to their length and weight; no talk of their blowing out. To make doubly sure of their safety, the government recently had a pin inserted into every Ross bolt to make it impossible for that bolt to be reassembled wrongly if taken apart.

Now, again, the Rosses are being supplanted by other weapons; but this time they aren't going into storage. They are being boxed and freighted to Atlantic ports, and the grapevine hath it that they will be shipped to less well-equipped Allies. And if a good sniper gets one of those long Rosses properly sighted in—there'll be one dead Jap when he draws the bead and presses that sweet Ross trigger!

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"Something Old—Something New"

(Continued from page 19)

American can be!) But a new Japanese paratrooper's rifle has appeared; a weapon which is essentially their standard 7.7 mm. (.303) rifle manufactured with a two-piece receiver.

The fore-end and barrel are securely mounted to a forward section of the frame or receiver (which mates with the rear section when the weapon is assembled), and the chamber section of the barrel seats solidly when thrust into its hole in the receiver proper.

A lug which is part of the barrel forging is machined to receive a cross bolt which is inserted from the right-hand side. This bolt locks the barrel firmly to the receiver on the same simple principle used in Jap 96 and 99 Light Machine Guns.

These barrels are not threaded. A screw piece is attached to a swivel pin which in turn is attached to the locking bolt. Thus, when the barrel is inserted in its place in the rear section of the receiver, the locking bolt is pushed through the hole in the right side of the receiver wall and the screw turned in its thread in the outer section of the receiver wall. As the screw turns, it pushes the swivel pin straight across, which transmits straight pressure against the head of the locking bolt to which the pin is attached. The locking bolt is forced through the cut in the lug and, when it is in position, each of its ends is securely locked in the receiver walls.

This rifle can be taken apart or assembled in five seconds or less. It is apparently in machine production.

It really is funny what people can do when they don't know "it can't be done." The Japs didn't know you couldn't make a quick-change barrel without screw threads, so they made it. They didn't know that you can't make a 20 mm. cannon on the .50 caliber Browning system—so did it. Their standard pistol, from the standpoint of design, is one of the finest weapons of that type—and is perhaps the cheapest of all modern military pistols to manufacture.

Can we learn something from the Japanese? Could be! They are learning from us, certainly.

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SNAPPING IN ON TINIAN

By SGT. FRANK X. TOLBERT

PRIVATE FIRST CLASS ALBERT H. SHIRLEY, of Los Angeles, is a giant blond youth who never had been in combat before the Tinian operation. . . . Platoon Sergeant Charles H. Smith is one of the most-decorated enlisted men in the Marine Corps.

Their outfit was guarding the Fifth Amphibious Corps command post the first week at Tinian. One morning, as they were going off watch, Al said "I wish that I could get up there where all the shooting is. I'd sure like to know how scared I'll be and how I'll perform when the bullets start flying."

Smith said: "Hell, let's go. We're not doing anything right now, anyway. I'll hold school for you."

Al got his Browning Automatic Rifle and 260 rounds of ammunition. Smitty got his M1 and sixty-four rounds. They started along an orange-colored road through shell-pocked canefields and swamps toward the front, about five miles away.

Before school was out that night, those two Marines killed nineteen Nipponese for certain, and a number of probables. They knocked out a heavy machine gun and its crew. They stole watermelons under the muzzles of Japanese guns, volunteered for a scouting trip on a bullet-raked ridge, and spent a few hours "disarming" land mines for a tank outfit! . . . But that's getting ahead of a magnificent story.

Al is six feet, four inches tall and weighs around 190 pounds, even when the rations are lean. He carries a BAR as lightly as if it were an air rifle. He tries, intelligently and honestly, to be a superlative Marine. "Smitty is my pattern," said Al.

Smitty sets a hard pattern. Since December, 1941, his life has read almost like a history of the Pacific War. Smitty was aboard a battleship in Pearl Harbor when the Japanese planes attacked. His pretty wife was at Pearl Harbor, too. She was killed on Ford Island by a strafing enemy plane.

Early in 1942, Smith was transferred to Colonel Carlson's Raiders. He was on the submarine-borne Makin Island raid, on the famous march that Carlson's men made through enemy territory on Guadalcanal, on the New Georgia, Gilberts, Marshalls, and Mariannas operations. He has won the Purple Heart four times and his sergeant major says that he really rates a fifth one. He has the Navy Cross and the Silver Star and a record book full of citations. He's studying Chinese now. . . . Smitty's commanding officer, Major James Logan Jones, says he is not only a model Marine—he's an inspired one.

It was hot and sticky that morning. The boys were glad when an ammunition truck stopped and fetched them up to the front. At the time, the front extended across the breadth of the island, from Tinian town through the edge of the airfield which is directly across the channel from Saipan's Aslito airport.

Navy dive bombers and Army fighters were blasting Japanese positions. A heavy artillery barrage was being laid into enemy lines. The Japanese were replying constantly with mortars and machine guns.

The boys stood on a low ridge and watched all of this. "Can I go down there and start shooting, Smitty?" asked Shirley.

"Take it easy, big boy. You ain't seen nothing yet. Take a long look around first."

They fell in with some infantrymen who were moving slowly in on the airfield. The Japanese were retreating back into the cane fields and marshes.

A loping Nipponese was sky-lined, briefly, on a ridge. Al fired fifteen rounds, offhand. The Japanese tumbled and fell out of sight.

"What in the hooting-nanny-hoot!" said Sergeant Smith. "You use fifteen rounds and maybe you didn't even kill that Skivvy. Your wife is home in San Diego buying bonds, and you're wastin' ammunition."

"I'm sorry," said Al, and swallowed twice. "Am I doing all right, otherwise?"

"OK. Let's go."

They fell in with a tank outfit.

"Who're you fellows?" asked a lieutenant colonel. "I don't seem to place you."

"Oh, we're scouts," said Smitty.

"Have some chow," said the colonel. And he offered them some C ration from one of the tanks.

"We're in a mine field," said the colonel. "I want some volunteers to move out ahead of us and look for mines and disarm them."

Smitty whispered to Al: "This is a good chance for you to get some snapping in."

Aloud, Smith said: "We'll go, sir."

So, Al and Smitty went out about 200 yards ahead of the tanks, like two young bird dogs, searching for the mines and taking the tops off the explosives and cutting the wires to render them harmless. When the bolts on the mines were rusty, this chore was doubly dangerous. Together, Al and Smitty disarmed six mines, sometimes with mortars and sniper bullets dropping around them.

When they'd got through the mine field, the colonel got a report that the Japanese were strongly entrenched just over a ridge. He asked for volunteers to walk behind a tank with a field telephone, observe Japanese positions and make a report.

There was a silence for a few moments after the colonel spoke. "We'll go, sir," said Smitty. And then he whispered to Al: "You're sure lucky to get all this snapping in."

"I know I'm lucky," said Al, humbly.

The tank crawled up the ridge with the two boys crouched behind. As soon as the tank was on top of the ridge, it started drawing heavy machine-gun and rifle fire from the enemy.

The tank moved about thirty-five yards from the ridge. A Japanese rifleman arose from the cane a few yards away with his rifle at his shoulder. Before he could fire, Shirley killed him with a two-round burst. Again he shot offhand. He fired at another but missed.

"Am I doing all right?" said Al.

"OK," said Smitty. "You'll do to take along."

Then the tank opened fire with its cannon and machine guns and started backing over the ridge.

By this time it was noon, and they had some more C ration. While they'd been on the reconnaissance mission behind the tank, they'd noticed a watermelon patch just over the ridge—the small, round watermelons which grow all over the Mariannas.

"Some of those melons would sure go good with this C ration," said Al. "And could I get some more shots."

"Go ahead," said his teacher. "But keep moving fast. And don't stop to plug any of those melons to see if they're ripe."

The tall boy galloped over the ridge and returned in a few minutes with four melons. He didn't draw any fire, so some of the tank men went for more. The melons were red-meated and ripe and very good.

At about 1400 o'clock, the colonel started roaring orders, and all the tanks streamed over the ridge, firing all guns. Smitty and Al walked by the same tank with which they'd gone on the reconnaissance. Shielded by the tank, they got within about twenty-five yards of a Japanese machine-gun position. The Nipponese, thirteen of them, had just moved a heavy Lewis-type machine gun up to a little rise near the road. They hadn't had time to dig in. They were busy firing at the road. They saw the tank but not the two Marine riflemen behind it. The tank was concentrating its fire on targets up ahead.

The tank stopped a moment. Smitty and Shirley stuck their weapons around the sides of the tank and fired at the machine gunners. Then, with Al covering with the BAR, Smitty stepped from behind the tank and heaved a grenade. It landed right on the sweet spot. When the smoke cleared, all of the thirteen Japanese were slumped around the gun. But Al poured a clip into them just for good measure. Sniper bullets kicked up dust around the boys' heels. Four Japanese arose like flushed quail from the cane field across the road and started running. Shirley killed all of them with about four shots to the man.

"I know four to the man is too many," he apologized. "I just couldn't get my finger off the trigger."

"It's OK," said Smitty. "Keep pumping. You're improving."

They walked around some bushes, and almost ran into a husky little Japanese officer. He was lying prone on the ground, but he was very much alive. For a few seconds, Al, who was in the lead, looked the Japanese squarely in the eye. The officer was reaching for his pistol. Shirley put three rounds in him and the force of the bullets raised the Nipponese to his knees. His helmet flew fifteen feet in the air.

Smitty and his pupil followed the tanks for another 300 yards and nothing much happened.

Smitty said: "I hate to interrupt your schooling, big boy, but this is getting a bit dull and I think we'd better go back. They're probably wondering what's become of us."

So they went back. On the way they picked up the Japanese machine gun they'd knocked out. They gathered some more watermelons. They hitched rides, first on a tank and then on a truck. They ate watermelons as they rode along.

They came into camp carrying the machine gun. Smitty spoke to the first sergeant, with Shirley standing in the background wearing a worried look.

"Sergeant Smith and PFC Shirley reporting in from the front lines," said Smitty.

They got off with only a few days extra police duty. Shirley said it was worth it just to satisfy his curiosity about how he would react under fire. "I believe I'll be all right," he said, "after I get some more experience."

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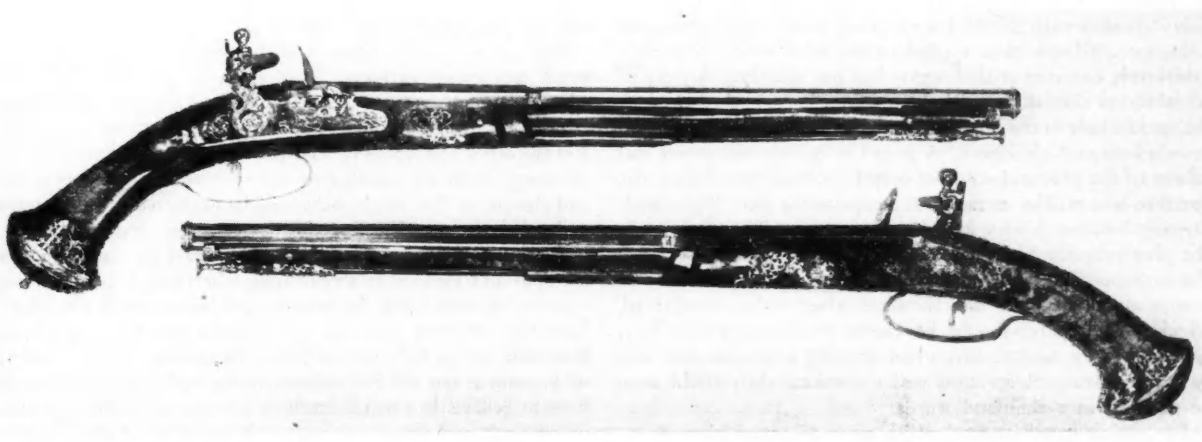


A superb pair of Italian flintlock pistols made in Breschia about 1650. Barrels are sixteen inches long, signed by Lazzari Cominaz. Locks are of the rare type in which the frizzen spring is enclosed. Stocks are of fine walnut, beautifully decorated. Over-all length of pistols is about twenty-two and one-half inches. They are a part of the fine Gustav Diderrich collection, now on sale by Abercrombie & Fitch, New York City.

Before Blueing Your Gun

(Continued from page 9)

The powdered emery, which is made in various grits, is glued to the surface of any of the afore-mentioned wheels. Flake or powdered glue, when heated with water in a double-boiler arrangement, serves as the bonding agent.

While wheels made of wood covered with felt or leather, then dressed with emery, are easiest to make at home, many excellent commercially made wheels can be had. Inexpensive, and applicable to a wide variety of jobs, are the canvas wheels marketed by plating supply firms and grinding wheel companies. For general work, the eight-inch-diameter by one-inch-wide size is ideal. The spindle hole on any wheel can be enlarged or decreased (by bushing), within reasonable limits, to fit any shaft. For flat surfaces (revolver frames, auto pistols, slides, etc.), where it is most desirous to *keep* them flat while still removing pits and other imperfections, the hard wheels (canvas, felt, or wood) are used. For irregular surfaces, such as military-type rifle receivers and round barrels, the best bet is a muslin wheel (cloth buff) dressed with abrasive. This class of wheel will remove metal without cutting too deeply defined ridges. Too, such a wheel allows accessibility to odd corners and radii.

GUN COLLECTOR

Peggy Saggus, age four-goin'-on-five, of Elberton, Georgia, has her own collection of guns and her own membership in NRA. Everett W. Saggus, Peggy's father says: "Since she has been old enough to know what a gun is, I've taught her how to handle guns properly. I believe she knows as much about firearms safety as half of our American adults. She loves all guns, but will not touch a high-powered rifle because, she says, 'They knock you too much!' "

The gun Peggy is holding is a flintlock pistol of English make. Stock, muzzle band, and all mountings are of silver, highly carved with birds, flowers, and martial scenes. It was made for the East India Company, for presentation to an Oriental Prince.

We have spoken much of dressed wheels in the preceding paragraphs; now let us select the wheel, or wheels, best suited for the job we are going to do. The glue has been mixed to the proper proportions, and a quantity of the abrasive, chosen with the depth of the surface pits in mind (a heavy abrasive such as 120 for roughing work) is on a piece of newspaper. Glue is then applied to the wheel's surface with a paintbrush, covering it thoroughly but not thickly. A piece of dowel rod or similar material about a foot long, pushed through the spindle hole in the wheel, serves as axle. The wheel can then be rolled through the emery. A proper amount of the emery will adhere to the glue and we need only to roll the wheel on a flat board to smooth the surface and complete the job. This wheel-dressing business is very easy but important. We must apply the glue properly and take care in smoothing the wheel on a flat surface. These precautions will preclude the possibility of bumps and high spots on the wheel after it has been dried, which, incidentally, should be about at least a twelve-hour period. A few tries at this wheel-dressing task and more will be learned from observation and experience than could even be outlined in a thousand words.

For giving metal its final polish prior to actual blueing, we use a sewn-cloth buff and a polishing compound. One of the finest polishing compounds for gun work which I have used in the blueing of more than five thousand guns and found to be very satisfactory is Lea Polishing Compound made by the Lea Manufacturing Company of Waterbury, Connecticut. With this compound one can obtain a very bright and clean surface with no traces of compound remaining on the metal. The Lea compound comes in a tube and the tube is peeled away as the compound is used up.

One need only place the compound lightly against a rotating buff wheel and the surface is immediately coated with the very fine abrasive material. The gun or part to be polished is then moved against the wheel in the same direction as the grain lines of the grinding.

In grinding gun frames and parts, it is very important to keep the direction of the cutting in harmonious lines. If it is necessary to use a heavy gut emery to remove deep pits, this should be followed by a second grinding with a finer-grit wheel to eliminate the deep cutting streaks. A 200-grit wheel should be the final cutting operation before the buffing, and for extra fineness the final grinding wheel should be allowed to run against a bar of tallow (or even an ordinary candle) before applying the work against the surface. Although no great shower of sparks comes from the soft-back-type grind wheel, it is well to remember that metal is coming off—but fast. As the mark of a hammer head around a nail is the carpenter apprentice's trademark, so also are rounded edges the mark of a novice grinder. To avoid this association, hold flat work firmly against the wheel and do not linger on one spot to remove a pit or dent. Rather, cover an entire length with each stroke and maintain the same angle when running off the work, lifting it from the wheel at the same time.

For getting inside trigger guards, cylinder flutes, and other small semiround surfaces, it is necessary to make a small adapter from ordinary cold-rolled steel. One end of the adapter is fastened to the polishing head shaft by means of a setscrew and the other end serves to hold the split-end dowel rod. Strips of emery cloth are inserted in the split end of the dowel rod and thus parts that might otherwise be neglected can be ground and polished through use of this device. (See drawing.)

In the preceding paragraphs I have tried to outline a few methods and kinks that should make the task of gun grinding a great deal easier and the results more indicative of the effort. This has not been intended as a treatise for the professional but rather a few helpful tips for the beginner. The refinishing of firearms is not the isolated and secret craft that some would have us believe. But metal finishing is an art in itself, be it gun or ash tray; and those who wish to know more of this wonderfully interesting art and to keep abreast of the latest trends would do well to subscribe to and study one of the publications or handbooks of the trade. ◆ ◆ ◆

THE REFLECTOR SIGHT

By JOHN B. BUTLER

THOSE OF US WHO SHOOT SKEET or try to bring home a few birds in the fall do not realize that what we think are difficult shots on fast-angling targets are simple alongside the problems confronting the aerial gunner. Most of the targets presented to aerial gunners would be called impossible by "snap shooters," and it was to meet these difficult situations, where complicated or confusing sights would be useless, that the simple and effective reflector sight was developed.

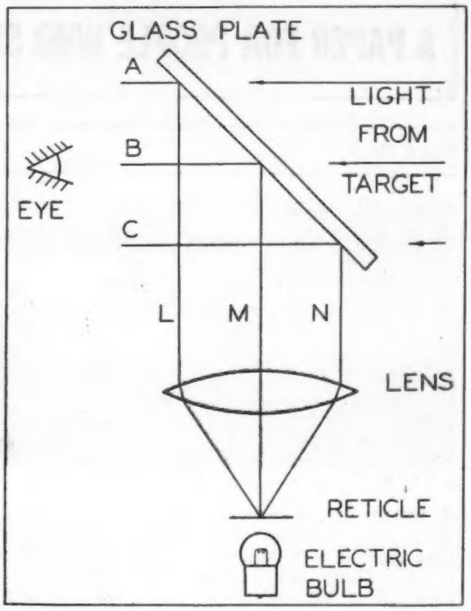


Fig. 1. Schematic diagram of a reflector sight.

A schematic diagram of a reflector sight is shown in Figure 1. Light from an electric light bulb passes through the reticle (usually a dot) illuminating it and by means of a lens throwing the image of the reticle on a glass plate. The reticle is placed at the focus of the lens and thus causes the image of the reticle on the ground glass to appear at infinity. The gunner sees the enemy ship through the glass plate and also sees a black dot out in space by the enemy. When he makes ship and dot coincide, he is all set to fire.

The theory behind this sight can best be seen by studying the properties of a simple lens as shown in Figure 2. If straight parallel rays of light strike the lens from one side they are gathered together on the other side of the lens at a distance called the focal length. This may be illustrated by using a magnifying glass to collect parallel rays from the sun and bring them together on a piece of paper in sufficient concentration to start a fire. The reflector sight uses the same sort of a lens system except that its lens system is run backwards. A point source of light is placed at the focus and this causes straight parallel rays of light to come from the other side of the lens. Looking at Figure 1, and assuming that the optical system is perfect, we see that L, M and N are straight parallel rays. Therefore, A, B, and C are straight parallel rays. This means that if a person looks down ray A, B, or C and sees the image of the reticle, the line from his eye to the image is a straight line and parallel to all the other rays coming from the glass plate. Therefore the rays A, B, and C can be aligned with a gun bore just as a conventional front sight to a rear sight can be lined up with a gun bore.

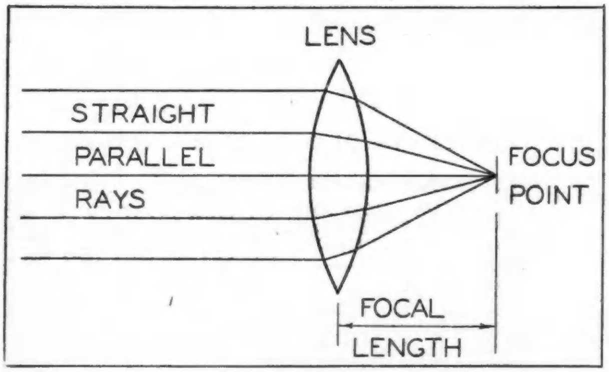


Fig. 2. Properties of a simple lens, which are reversed in the reflector sight.

This simple sight is used chiefly by fighter pilots and by gunners in power-operated turrets. As all rays coming from the glass plate are parallel it is possible to use any portion of the plate for sighting purposes as long as the eye intercepts the ray of light from the reticle. Thus the gunner can look through the top of the plate along A, through the bottom along C, or along rays coming from any part of the plate. If the glass plate is four inches wide and four inches long there are about twelve square inches of sighting area, which makes sighting much easier than in sights which operate on an eye-to-point-to-point-to-target principle. The reflector sight thus possesses the advantages of rapid sighting, large field, and of having the reticle and target visible in the same plane.

To counterbalance these attractive features of the reflector sight there are some disadvantages. It is not possible to get any magnification of the target without changing the setup into a conventional telescopic sight with the resulting limited field and fussy sighting technique. It is possible with the reflector sight to have variations in point of impact equal to the area of the sight projected on a vertical plane. This is caused by aiming and firing using one line of sight, say ray A, and then moving to another line of sight, say C, and firing the next shot. The points of impact will vary an amount corresponding to the distance between the two lines of sight (distance A to C). This objection involves only a small percentage of error, negligible for this type of work. Errors in the lens, chiefly spherical aberration, and errors in the placing of the reticle are much more serious. These errors may cause lines A, B, and C, to be parallel and thus cause large errors.

Considerable research work has been done to make the electric light bulb which illuminates the reticle as dependable as possible. Without the action of this bulb which makes the reticle show up clearly on the unsilvered surface of the glass plate no image of the reticle is formed. It is easy to imagine the difficulties caused by electric bulb failure.

The change from the concentric-ring type of sights for specific aircraft use to the reflector sight adds new impetus to the riflemen's discussions concerning open sights, peep sights, and glass sights. The Army's change from open sights to peep sights on its Garands and Springfields indicates a trend toward precision sighting equipment which may not end before all service rifles are equipped with some sort of sight which places the reticle and the target in the same plane. ◆ ◆ ◆

A PAPER FOR PEOPLE WHO SHOOT

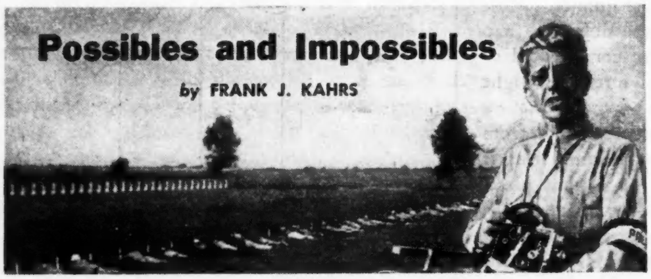
Rifle Remi

VOL. 8, NO. 4 First Class Reading Matter for Rifle Shooters BRIDGEPORT, CON CUT,

SPRING HERA

Possibles and Impossibles

by FRANK J. KAHRS



I STILL GET TARGETS from shooter friends indicating that there is a great interest in target shooting despite the shortage of ammunition.

The other day a good friend from Tucson, Arizona, from whom I have not heard in several years, sent me the Army SB-A-3 target. It's a reproduction of the 200-yard A target to 50 feet and the bull is about one-half inch and the four-ring is 1⅜ inches.

My friend was quite proud of his group. Eight of the shots practically obliterated the bull's-eye with two shots out of the black. All fired rapid-fire in 53 seconds—offhand! Try that on your "bazooka" sometime! The score, of course, is 48 out of 50 and he mentioned casually that he had 91 x 100 on the 50-foot N.R.A. gallery five-bull target the other evening.

Now, why did he send all this to me? Well, in all modesty, he said it was red-hot Remington 22 stuff. Those boys in Tucson are red hot, too, believe me.

* * *

Just learned from an old friend up in Pennsylvania that he is still active in rifle shooting and training schools, and recently brought three units or rifle clubs into one fine working unit in the Philadelphia area.

Also, as a result of this organization they plan some N.R.A. Registered Matches this season, the first of which has been scheduled for late in May and has already been approved by the N.R.A.

Here's another case where a club is fortunate in having a spark plug for Executive Officer and general promoter of interest. Oh, yes, there are about 100 shooters mixed up in this particular organization, so it is a sizable proposition.

In this issue of the RIFLE NEWS there will be found some interesting suggestions for rifle clubs generally on getting on the outdoor range again. These are all very helpful and will do much to bring the club members together and create closer interest and cooperation among all.

In every club there are men who are willing enough to jump in and help build a range house or dig a trench or smooth out the firing point, but they need a little psychology of "Don't do any more than you have to," or "Let the other fellow do it."

My own feeling is that a good, live Executive Officer or club secretary will wring a lot of work out of all the members if he goes at it the right way, and if some of the members don't respond, it's because they are physically unable to do it, or unwilling for selfish reasons. The sooner you find out who these men are, the better off the club will be.

I have heard fellows on the firing line on a hot day say in loud and raucous tones, "Why don't we have a covered firing point?" And I'd say to myself, "Sissy!" But after I have stood with a lot of other fellows in the protection of a porch while the rain poured down waiting for it to stop so we could get on with the shoot, I have come to the conclusion that covered firing points are the most important part of any rifle range.

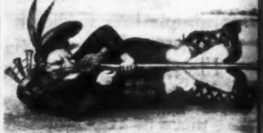
Every time I go to Clearwater, Florida, where they have the best in the country, I think of the many clubs that do not have a covered firing point and wish some of their people could see what a fine job the Clearwater boys have done for their club. I will guarantee that there wouldn't be a club in the country without a covered firing point, so I say "Amen" to the suggestions in general on the rest of this page.

CLUBS WITH COVERED FIRING POINTS HAVE ALL-WEATHER SHOOTING

CROSSTOWN, U. S. A., April, 1945. The few clubs in the countrv that have covered firing points have never regretted the time they spent in building them. They provide the maximum in comfort for shooters on the line, whether it's a rainy day or a hot, sunny day. Any club that doesn't have its firing points covered should give serious thought to the matter.

Even in these days of shortages, it is possible to get enough second-hand or reclaimed materials to do a neat, efficient job and there are enough mechanically-gifted men in most clubs to do the jobs themselves. If club finances permit covering only half of the firing points, it is still well worth the effort. Remington experts will be glad to make suggestions or comments on any plan that a club might design.

Strange Shooting Pos Demonstrated in Ol Currier & Ives Pri



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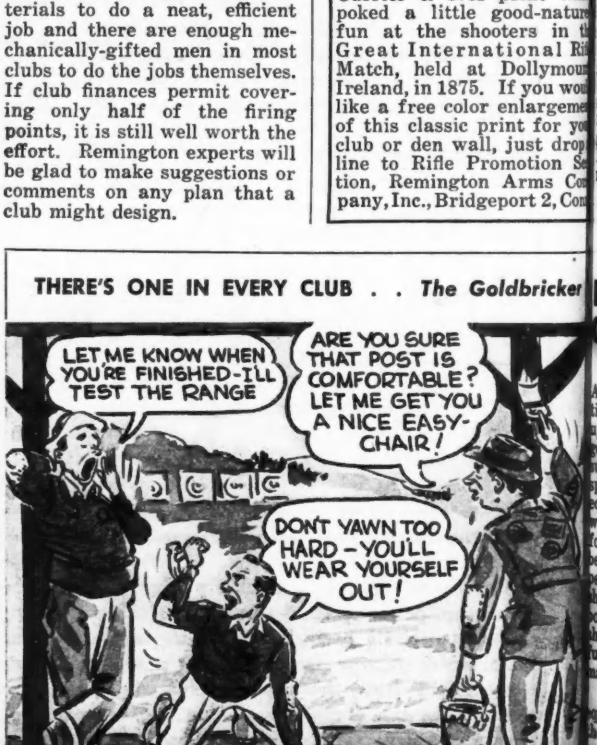
THERE'S ONE IN EVERY CLUB . . *The Goldbricker*



LET ME KNOW WHEN YOU'RE FINISHED-I'LL TEST THE RANGE
ARE YOU SURE THAT POST IS COMFORTABLE? LET ME GET YOU A NICE EASY-CHAIR!
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emington News

RT, CON ICUT, APRIL, 1945

FREE: To Readers of American Rifleman

WEATHER:
COOL AND DRY FOR CLUBS WITH COVERED FIRING LINES

ADS OUTDOOR RIFLE SEASON

MAINTENANCE COMMITTEES BUSY READYING OUTDOOR RANGES FOR SPRING AND SUMMER SHOOTING SEASON

CLUB OFFICERS URGED TO APPOINT COMMITTEE FOR SPRING CLEAN-UP

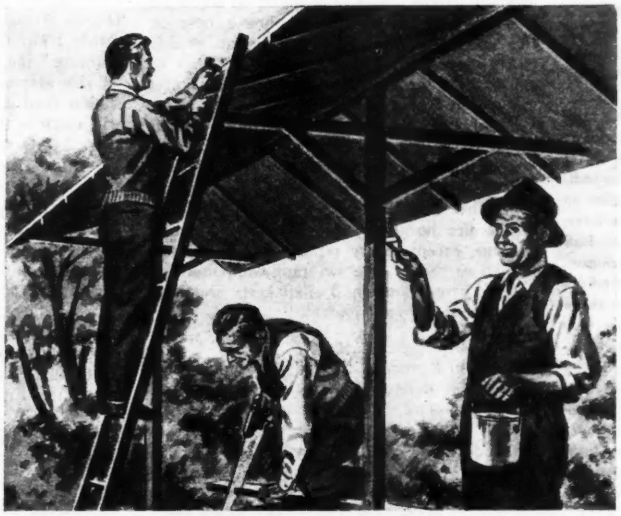
MIDDLETOWN, U. S. A., April, 1945. The first step in giving the outdoor range a general reconditioning, before the season begins, is for the live-wire members to get together and talk over what needs to be done. The Executive Officers of some clubs already have called meetings to specifically discuss these preparations and appoint committees to do the work.

Every club has a carpenter, an electrician, or a general handyman who could serve to good advantage on such a committee, and who usually will be glad to lend a helping hand. It is not too early to get started now.

NOW IS THE TIME TO CHECK EQUIPMENT FOR 1945 OUTDOOR RIFLE SEASON

CENTERVILLE, U. S. A., April, 1945. Spring is a good time for every shooter to check up on his personal shooting gear. High grade equipment such as match rifles, telescopes, spotting scopes, and other equipment does not improve with old age, and when stored for a long period of time should be inspected and cared for periodically. Shooting gloves, shooting coats, glasses, kit boxes and other equipment should all be gone over carefully and necessary repairs made.

Those who protect their equipment will be prepared for the time when they are able to get all the ammunition they need, and when it won't be necessary to store their gear for a single day.



KEEP UP RANGES DESPITE AMMUNITION SHORTAGE

Many rifle clubs have found that it pays to get out early in the year and get the job done. Covered firing points usually require a coating of paint, some repair work, and the drainage trench needs to be cleaned out.

REMINGTON MODEL 513T TARGET RIFLE MEETS MATCH SHOOTING REQUIREMENTS

BRIDGEPORT, CONN., April 1945. When target rifles are again available, every shooter who wants a moderately priced yet highly accurate rifle should see and handle the Remington Model 513T Matchmaster target rifle.

From butt plate to muzzle the Model 513T reflects precision workmanship for unfailing accuracy. It is equipped with adjustable sights, the new Remington easy-operating bolt and detachable six-shot magazine. It has an adjustable trigger stop for smooth, crisp, short trigger pull, and the high, thick comb runs straight back to the heel of the stock to enable the eye to find the sight and hold the aim easily and naturally.

For further details, write for a free descriptive folder. Address: Rifle Promotion Section, Remington Arms Co., Inc., Bridgeport 2, Conn.

MIDDLETOWN, U. S. A. With the icy blasts of winter left behind and bright sunny days ahead, now is the time that rifle clubs in all parts of the country are getting their ranges in condition for the spring and summer season.

Shooting will be limited due to the ammunition shortage, also because so many rifle club members are in the armed forces. However, under wartime conditions, officials of clubs consider it especially necessary to maintain their ranges in the best possible condition. As evidence of this, many club presidents and secretaries point to the urgent need for adequate range facilities for pre-induction rifle training programs.

Whether a range will be used only a few times during the season or every week, it should be kept in good condition. Target frames that have been stored for the winter may need renovating and perhaps a coat or two of paint. Some of the older frames may need replacing. Backstops should be given attention as a safety factor.

Even if the backstop is a high bank it should be inspected carefully to remove pebbles and stones that might cause deflected bullets. If a wooden backstop is used, throw in a few more logs, take out those that have been badly chewed up, fill in with sand, anything that will insure a really safe backstop.

Firing points should be rolled to assure flat, comfortable positions; elbow pits rolled out; and a proper drainage system constructed. If the firing points are covered, a good paint job and repair work may be needed. If the firing points are not covered, it is a worthwhile project for clubs to consider, even in wartime.

. U. S. by Remington Arms Co., Inc.

POWDER SMOKE: READERS COMMENTS THE NEWS DESK

DISCOVERY

Editor:

One day recently I happened to be in Elkhart, Indiana, with two or three hours between trains. I started sauntering down the main street and, on a door at one side of the entrance of the Orpheum Theater, I saw a sign:

National Rifle Association
Field Office
W. Dow Smith, Manager

I read it and reread it. I've been a member of the NRA for a good long time, but this was all new to me! I climbed the stairs. A sweet young thing with a pleasant smile stepped up and said, "Come in, Shooter. Which is your pet, the rifle or the pistol?"

Well, I introduced myself and, a minute later, she introduces me to Mr. Smith. I recognize him immediately as the referee of a match I shot in a couple of years ago. He sits me down and I blurt out my question: "What is this, anyhow? I thought the NRA was in Washington!"

Mr. Smith grins and starts giving me the low-down. It seems the NRA folks figured there was a need for them to branch out—to make closer contact with the leagues, the clubs, and the individual shooters. Right now, this branch office in Elkhart is the only one, but there'll be more later, in the different sections. This one serves four states: Indiana, Illinois, Wisconsin, and Michigan. Smith said his mission is to serve the immediate and special needs of clubs and shooters in those states, and to keep 'em at work training new shooters. He's planning, too, a club-officer-training program, so that clubs will be better run.

Next, he points to the big wall maps surrounding him; maps of the four states above-mentioned, with colored pins stuck in all over them. The blue pins mean Class A Senior Clubs; the red pins are for Junior Clubs. Some cities had green pins, for Class B Clubs, and there were yellow pins for summer camps, and white pins indicating more than five individual members in a city with no club. I said I couldn't figure why those members didn't get busy and *start* a club—or why any outfit would be content with anything less than a Class A Club. (You Class B clubs had better get wise and change over. You'll save money, and you'll have a better club.)

I don't understand either why clubs don't hold more registered shoots. Shooters all like to have national classifications and they go for matches run that way. Smith said something right here that's worth quoting: "A good club can't stand still. If it isn't growing and improving, it's going backward."

I just want to say that I think this Field Office idea is swell. Let's have more of them! They'll bring the NRA closer to us, and us closer to the NRA.

E. Q. Caslon.

WARNING!

Lewiston, Idaho.

Editor:

Remember shipping me a batch of .22 LR hulls from your range in Washington? What I want to know is, why do you use POWDER for sweeping compound?

When those hulls arrived, I noticed they were mixed with what I took to be sweeping compound, so I screened them and swept the siftings, along with other trash, against the wall—under the stand that holds my emery grinder. A few minutes later, I put this grinder to work.

Sparks hit that pile of trash, and—WHOOM! The trash bounced; flames shot clear to the ceiling; the cuffs of my pants caught fire, and there was hell to pay generally! Neighbors and the family came pouring in to see what was what and found me wielding a hose on the charred and shortened remnant of my pants and on the still-smouldering heap of trash. Just then, the hose came off the faucet and, when I backed away from the fire to re-establish the connection, I got my hip pockets under the faucet and got 'em filled with very wet, very cold, aqua pura! . . . By that time, the cellar was so full of smoke (powder, and oral) that I left for air.

The fire burned itself out without further damage, except to my reputation. I am now known as "Speer, the sweeping-compound expert." From now on, I shall keep fire away from anything you send me!

Vernon D. Speer.

Unburned powder blown from gun barrels falls to the floor in front of firing points and can accumulate to become a dangerous fire hazard. This is especially noticeable where a great deal of firing is done with pistols and revolvers, the short barrels allowing less combustion time and leaving a greater residue of unburned powder. We have published warnings to this effect before; but Mr. Speer's amusing letter gives us an opportunity to say, again—Keep your range clean, and keep the sweepings away from fire.—Editor.

IF YOU MOVE—

Be sure to notify us promptly if you move or change your mailing address. The Post Office does not forward magazines unless postage is left with the forwarding office and we seldom have any extra copies to replace magazines mailed to an "old address." Always give both old and new address when reporting a change, allowing as much advance notice as possible before the change becomes effective.

ERRATA

If "to err is human; to forgive, divine," we hereby prove our human frailty and trust our readers to prove their claim upon divinity.

In our February issue, page 24, in the graph (Figure 3) accompanying Mr. Carl Swanson's article, "The Optimum Fixed Sight Setting for Hunting," the figures in the upper right corner of the graph (marking the various curves) should read 1.8", 1.6", etc. A reading glass will disclose that our draughtsman miscopied those figures to read 1′ 8", 1′ 6", etc.

In the same issue, page 35, in the article, "Rifle Barrel Deflection," by J. R. Helms, line 32, first column, which reads: ". . . a deflection of less than .005 inch," should read, ". . . a deflection of less than .0005 inch."

In our March issue, page 31, at the end of Ed McGivern's article, "Let the Targets Talk!" the line above the picture at the bottom of the right-hand column gives Mr. McGivern the title of "Colonel." The line, as penciled in on a printer's proof by this editor, read: "Other articles by Ed McGivern will follow." "E-d" in penciled script became "C-o-l." in type—and this editor is now assiduously endeavoring to improve his penmanship.

CARBINE

Pronounce it to rhyme with vine. That's proper, according to Winchester, developers of the Army's five-pound spitfire.

It's correct also by authority of Webster's Unabridged, with no alternative "car-bean" mentioned in the 1943 edition of that knows-all volume. This much to the disgust of this writer, who has said "car-bean" ever since he learned that the word meant the same as "saddle gun"—the common terminology out where he was "raised!"

Hundreds of hours of rifle and pistol instruction were given during 1944 by Company 938, Maryland *Minute Men*, commanded by Captain Louis A. Day, at the fine University of *Maryland* range, to service women—WAVE's, WAC's, SPAR's, and *Marine* Reserves.

Captain *Marna* V. Brady (insert, upper left) led the field with the pistol, scoring 632 out of a possible 660. Captain Brady is now overseas. Pfc. Areta Bain, of the *Marines*, shot 340 out of 400 to lead the field with the rifle.

In the picture at the left, Yeoman First Class Josephine Langlie, USN, instructs Pfc. Arbutus Brandenburg, of the *Marines*, with the rifle.

SILVER STAR TO EDSON

The Silver Star has been awarded to Brig. Gen. Merritt Edson for his work in the invasions of Saipan and Tinian, according to a Marine Corps dispatch from the Pacific.

General Edson already holds the Congressional Medal of Honor, the British Distinguished Service Order, the Navy Cross, and other decorations, and is now Chief of Staff of Fleet Marine Forces in the Pacific.

He received the Silver Star from Lt. Gen. Holland M. Smith, Commanding General of the Fleet Marine Forces. According to the dispatch, he landed on Saipan the afternoon of June 15, in the face of heavy enemy artillery and mortar fire and quickly established contact between forces ashore and those still afloat. During the remainder of the campaign, he continually went to the front lines to assist troop commanders and to co-ordinate the general drive, "at great personal risk. During the Tinian operation, from July 24 to August 1, he displayed the same brilliant leadership. His exemplary performance of difficult tasks was vital to the successful accomplishment of the division's mission."

BULL'S-EYE

With the 79th Division, 7th Army, in France and Germany:—A bull's-eye at 250 yards on the rifle range is a fair shot. But when your target at the same distance is a live Nazi shepherding two American prisoners back to his lines, you can't afford to miss. And Sgt. Frank M. Keyes, of Company F, 315th Infantry Regiment, Knobel, Ark., didn't.

Keyes, on patrol, spotted the trio from his vantage point atop a high ridge. The Squarehead, sensing that other Americans were in the area, shrewdly placed himself between his prisoners. Keyes held his fire for several seconds, hoping that at least one of the GI's would stumble or that the Nazi would shorten his stride. When neither of these possibilities occurred, he carefully checked his sights, tested the wind, and drew a bead.

"I just told myself that this was another shot on the 250-yard range at Camp Joseph T. Robinson," he said, "and squeezed."

The Jerry spun and staggered, but did not fall. While the alert GI's broke and ran like rabbits for their own lines, the Arkansan squeezed off another round. This time the German fell and moved no more. Witnesses: Members of Keyes' patrol and two "repatriated" prisoners who had to be forcibly restrained from their enthusiastic backslapping of the modest expert rifleman.—*Army Times.*

IN FRONT OF THE FRONT

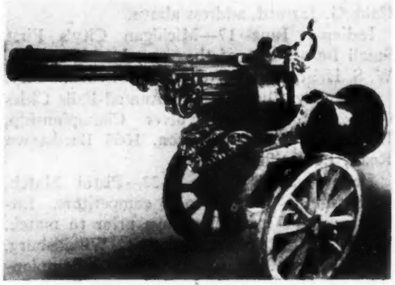
Eight hundred yards out in front of the front lines on the jungle island of Bougainville, Infantry units are doing rifle, machine-gun, automatic-rifle, and bazooka practice on five ranges—while patrols keeps Japs at a safe distance! The novel "refresher" course in weapons was set up ahead of the front lines because the ranges could not be placed within U. S. lines without endangering our troops.—*"Army Ordnance Bulletin."*

HEROIC FAILURE

Less than twelve hours after they had risked their lives in an attempt, under vicious fire, to disconnect the demolition charges set by the retreating Germans to destroy the great Adolf Hitler highway bridge across the Rhine, nineteen soldier volunteers and their commanding officer, Colonel Sidney R. Hinds, stood at attention in the mud of an advanced German farmyard, under drizzling rain, while Silver Stars were pinned on their chests by Brigadier General Isaac D. White. It was one of the promptest group awards on record.

Even so, the time lapse was long by comparison with the less than twenty minutes that elapsed between the return of the last man of the patrol from the bridge and the time when the bridge was blown by the Germans. Driven back by flames from the burning tar roadway on the bridge, set on fire by grenade explosions, the patrol reached shore barely in time to escape the blast that dropped the bridge into the flood-swollen river.

Colonel Hinds is well remembered as a great rifleman, a fine competitor and sportsman. He is another of "the Men of Perry;" a Life Member of the NRA since 1923; winner of the NRA Free Rifle Championship and the Camp Perry Instructors' Match in 1924, winner of the All-Around Championship at Perry in 1936, he has been a member of many winning Infantry Rifle Teams and has twice represented the United States in International rifle competition.



AIMED FIRE

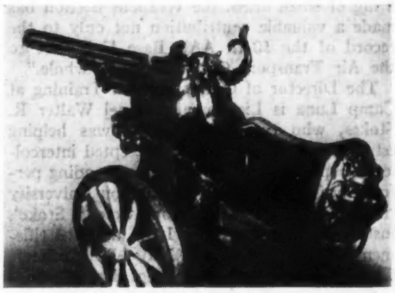
With the 38th "Cyclone" Division on Bataan—Sgt. Edwin Heiberger, former president of the Melrose Rifle Club, Oakland, Cal., and son of Mrs. Ruby Heiberger, 5255 Belvedere Ave., Oakland, spent many hours on Army rifle ranges in the United States teaching officers and enlisted men the art of accurate marksmanship. Now with his outfit in combat on Luzon, Sgt. Heiberger is glad to see that the men he trained are making good use of their skill with weapons.

Expert rifle fire paid high dividends when the 38th "Cyclone" Division stormed Olongapo, chief port city of Subic Bay. It was imperative that the high Olongapo bridge leading into town be saved for free forward movement of U. S. troops and supply trucks. The fate of the bridge appeared sealed when American observers in the mountains saw a Jap demolition crew approaching the bridge. Heavy fire could not be risked with any safety to the bridge, so riflemen were called up. Their deadly marksmanship took care of the Japs at a range of about 400 yards.

"Shooting like that is pulling us through many a tight spot," said Heiberger, "and I'm proud to have helped train men who are knocking out the enemy with such skill."

Sgt. Heiberger, overseas for more than a year, holds Expert Rating for all Infantry small arms, and even for the 37 mm. antitank gun. In civilian life he was a member of the California State .30 Caliber Rifle Team, and at the time of his induction was president of the Melrose Rifle Club of Oakland, Cal.

REVOLVER ON WHEELS!



Familiar to all shooters of our oversized guns (rifle, shotgun, or pistol) is the remark, "All it needs is a pair of wheels!"

From Bert Munhall (cartridge expert whose article, *"How Many Are There?"* appeared in last month's issue) comes this picture of a revolver actually on wheels. The piece is in the National Museum at Bangkok, Siam, and the accompanying letter from Luang Boribal Buribhandh, Curator, tells its history:

"It is said that His Majesty Phra-Chom-Klao (King Rama IV) saw in a dream a piece of ordnance fashioned after the model of a revolver, and therefore, placed an order with a firm in Paris for one like it. The firm sent him a cannon but His Majesty was not satisfied with it because its magazine could not revolve. He, therefore, prepared another design and placed an order for its execution with a Belgian firm of armourers in Liège in the year 1864. The cannon bears on its barrel an inscription which reads:

'Lebeau Frères, Fabts d'armes à Liège.
F. Monceau, Armourier à Saint Remi, Liège.' "

The cannon is about 37 mm. in caliber and stands about forty inches high.

EIGHT CITATIONS

Flight Officer William H. Johnson, of Ridgeley, West Virginia, has flown forty missions over enemy territory as pilot of an AAF B-26 Marauder. He has earned an Air Medal and seven Oak Leaf clusters for missions over Pantelleria, Sicily, Sardinia, Italy, and France. He also participated in attacks on Messina, Salerno, Naples, and Rome.

Harry Morgan, of the Frostburg Rifle and Pistol Club, Frostburg, Maryland, writes: "Bill Johnson was a member of the 4H Rifle Team that won the cup in Division C in 1938 and 1939. He has an Assistant Instructor's commission and held the Junior Expert rating. He gives the Club and the NRA credit for the training that has brought him out of more than one tough spot!"

CITATION

The Weapons Section, 504th AAF Base Unit (A. T. C. Replacement Center) Camp Luna, Las Vegas, New Mexico, has been awarded a Meritorious Service unit citation "for its superior performance of duty and outstanding devotion to the accomplishment of its assigned mission. This organization, achieving a high degree of military and professional efficiency, has maintained a superior individual conduct of its personnel, a high *esprit de corps*, a superior over-all technical and administrative record, and an outstanding level of discipline and morale. By qualifying approximately 98% of all enlisted men in the firing of small arms, the Weapons Section has made a valuable contribution not only to the record of the 504th AAF Base Unit, but to the Air Transport Command as a whole."

The Director of Operations and Training at Camp Luna is Lieutenant Colonel Walter R. Stokes, who twenty years ago was helping establish rifle shooting as an accepted intercollegiate sport by reason of the outstanding performance of his George Washington University rifle squad. Prominent among Colonel Stoke's instruction group at Camp Luna are NRA riflemen Major Percy Gibson, Major Bill Coffman, Captain Tom Hyslop, and S/Sgt. Reed Gray.

Civilian small arms training pays off!

ACTIVE CLUB

The officers and members of the Saugus Revolver and Rifle Club at Saugus, Massachusetts, like to shoot. They like it so much that they refused to let the common wartime difficulties interfere to any great extent.

Finding that the two pistol and two rifle leagues, in which the club had participated in the past, were dormant for the duration, the club still determined that there should be some league competition. Harry Kennard, Saugus secretary, advises that, after a very successful league for offhand shooting during the fall months, the Massachusetts Small Bore Rifle League has now been instituted and is now firing a series of indoor matches. The league is intended as a year-round proposition. At the end of the gallery season a "twenty medal" open shoot is planned to be followed by a league banquet. Eight teams are firing in the gallery schedule.

Of course, there's also a pistol league. Seven teams are firing in it. And the Saugus club has its own club matches, rifle and pistol, two classes, A and B, and plenty of awards.

These wide-awake shooters are not being selfish about their shooting either. They have an Approved Small Arms Firing School which has trained and graduated 150 potential inductees. In addition two U. S. Coast Guard Reserve Flotillas, forty-eight auxiliary police and thirty-one plant guards were trained—so well that the auxiliary police qualified twenty-seven men as Experts and twenty-five as Sharpshooters.

Even the critical ammunition shortage did not slow down activities to any extent. Each club member was issued a ration card which entitled him to fifty rounds every two weeks. Team members received a "supplemental" ration of twenty-five extra rounds for each match. Incidentally, during this period the club membership doubled.

BOOK REVIEWS

"POISONOUS SNAKES OF THE EASTERN U. S., WITH FIRST AID GUIDE"

By Harry T. Davis and C. S. Brimley

This booklet is written primarily for the layman so that he may know the dangerous snakes of the area, where they are to be found, and what to do if bitten by them. It is brief, concise, and authentic. Everyone who ventures out of doors in times when these snakes are about should have the information contained in these pages.—C. M. P.

(16 pages, four full-color plates, twelve photographic figures, and a few sketches. Published by North Carolina State Museum. For sale by NRA Book Dept. Price ten cents.)

COMING EVENTS

California, April 13—Gallery Pistol, at Alto. H. O. Peters, 706 3rd Street, San Rafael.

April 15—Southern California Pistol & Revolver League, Glendale. J. E. Cornell, 662 Arden Avenue, Glendale 2.

April 15, May 20, June 17—San Francisco Police Monthly Pistol Tournament. E. J. Dutil, 324 16th Street, San Francisco.

Georgia, May 6—Outdoor Pistol Tournament, Gainesville. Gabe G. Jarrard, Thompson Bridge Road, Gainesville.

May 20—Outdoor Rifle Match, Gainesville. Gabe G. Jarrard, address above.

Indiana, June 17—Michigan City's First Small Bore Shoot of the year, Michigan City. W. S. Heise, 333 Warren Bldg., Michigan City.

Kentucky, June 17—7th Annual-Falls Cities Open Pistol and Revolver Championship, Louisville. J. R. Anderson, 1065 Bardstown Road, Louisville.

Pennsylvania, April 21-22—Pistol Match, Wilkinsburg. Limited to 63 competitors. Entries must be made five days prior to match. W. H. Sutton, 1616 Montier St., Wilkinsburg.

April 7-8—Blair County Pistol Championship, at Altoona. C. J. Code, 919 Penn St., Hollidaysburg.

May 20—First Annual Spring Tournament, Chester. Bettie M. O'Brien, 510 N. 52nd Street, Philadelphia 31.

May 27, June 24—Small Bore Tournament, Allentown. Alfred M. Newhard, 111 E. Susquehanna St., Allentown.

May 30—Kittanning Memorial Day Shoot. E. W. Cook, 926 Orr Avenue, Kittanning.

STOLEN GUNS

One .22 Police Positive Target Model Revolver, 6-inch barrel, special hammer, Pachmayr adapter, Serial Number 45484. H. F. Worley, 5353 Reno Road, N. W., Washington 15, D. C.

One Super Grade .220 Swift, Serial Number 33042, with Lyman's 8X Targetspot; also one case of Peters' 16 gauge ammunition. Twenty-five dollars reward for substantial information. D. J. Bond, 32505 Lahser Road, Birmingham, Michigan.

Dean W. King

The founder of the King Gun Sight Company died on January twenty-first at his home in San Mateo, California, after a long illness. He was seventy-four years of age.

Born in Golden, Colorado, his first business connection with the shooting game came, oddly enough, when he was appointed the first American representative of the Nobels Explosives Company of Glasgow, Scotland. Later he became Denver District Sales Manager for Remington and after nine years was transferred to San Francisco as Western Sales Manager.

In 1928 he severed his Remington connections and embarked on his own business. His honest, efficient, progressive and friendly methods earned him a host of friends in the shooting world. His widow survives him.

Charles J. Perry

After an illness of two years duration, Charles J. Perry died at his home in Saginaw, Michigan, on February third, at the age of 56.

Born and reared in the Saginaw area, he had long been one of the moving spirits in the development of the Saginaw Gun Club's excellent facilities. He combined to a rare degree the ability to shoot any weapon with the willingness to give up his own shooting in order to coach a tyro.

His passing is sincerely regretted by an unusually wide circle of shooting friends and pupils, many of whom are now in action on the battle fronts of the world.

Monroe H. Goode

Partially paralyzed as the result of a stroke last fall, Monroe H. Goode, fifty years of age, died of wounds inflicted in a manner not yet determined, in his apartment in Dallas, Texas, on February twelfth. Mr. Goode, at one time a vice-president of the Marland Oil Company, had, during the past decade, become one of America's better-known writers on subjects pertaining to big-game hunting and equipment. His tragic death came as a shock to hundreds of friends and acquaintances.

Iver O. Mossberg

On February 18th, after an illness of two months, Iver O. Mossberg, President of the firm of O. F. Mossberg & Sons, died in New Haven, Connecticut. He was fifty years of age.

Iver Mossberg typified those characteristics which we associate with the word "sportsman." He had the keen, analytical mind of the engineer, an inherent sense of justice and fair play, a kindly understanding of his fellow man, and a grand sense of humor. His passing is a loss to the industry and to hundreds of friends and acquaintances who respected and admired him.

Maurice C. Proctor

Maurice C. Proctor, long a member of the NRA and a past president of Reading Rifle and Revolver Club, Reading, Massachusetts, died suddenly on December 28, 1944, age fifty-three years.

He was an accomplished rifleman, a competitor at Camp Perry in 1938, 1939 and 1940. At the time of his death he was Secretary of Reading Rifle and Revolver Club.

DOPE BAG ☆ ☆ ☆ Conducted by F. C. NESS

THIS MONTH:

Engraved Guns · Carved Stocks · Weatherby Velocities · .270 Magnums · .250 Magnums · Ballistic Theories · Wildcat Results · Free Knives · Homemade Revolvers · Trade Dope.

KNIVES FREE TO FIGHTERS

Don M. Hutchinson, of 118 Allen St., State College, Pa., continues to make those sturdy, jungle, sheath knives for our fighters on all Allied battle fronts, after supplying several hundred of them, free, to servicemen in war zones. I have mentioned them before in these columns, and am now showing a picture. I know their quality, having had two samples. I sent these two into the Pacific Zone and know they are well liked by the Marines. One went to Billy Ness of the Second Marines and was used on Saipan, and the other went back with George Walker of the Third Marines, recently, when he was scheduled to return to the Pacific. George W. Spence, of Steele, Mo., is making, in quantity, practically the same knives, and is distributing them, gratis, to fighters at the active fronts, both east and west. Both makers fill all direct requests, in turn, and as fast as their spare-time manufacture of these combat knives will permit. Very likely, both will place their products on the commercial market after the war.

THREE HOMEMADE HANDGUNS

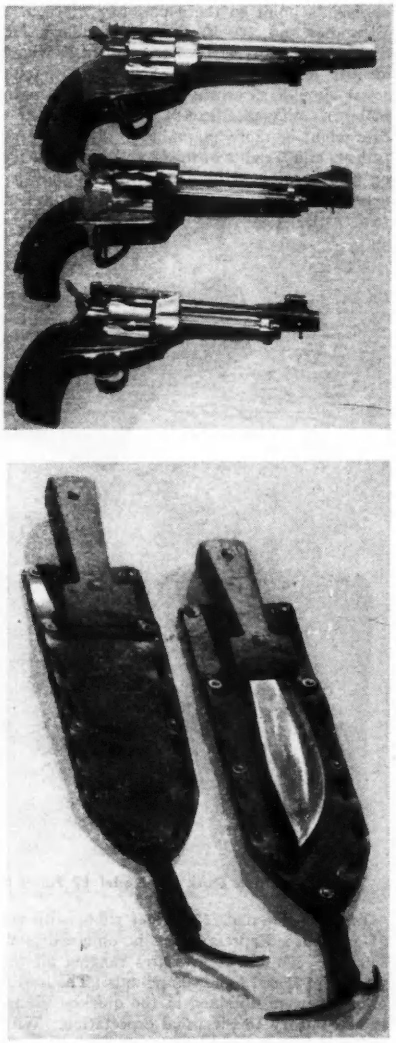
While he lived at Manhattan Beach, Calif., Harold A. Ulery made several revolvers for special loads, and I am showing three of them. The topmost gun was made smoothbore with a .425-inch choke at the muzzle of its 9½-inch barrel and chambered for the .300 H. & H. Magnum case, cut to a length of 2.125 inches, and given a body taper of .010 to the inch. The over-all gun length is 16½ inches, with a cylinder length of 2.125 inches and a thickness of 2.1 inches. The cylinder was made of 4140 annealed steel; the frame, of low-carbon steel; and the barrel, of annealed tool steel. This gun makes a killing pattern up to 25 yards with its load of ¾ ounce No. 6 shot.

The middle gun is 16 inches long, with the same barrel length and a 2-inch cylinder, the latter being a little thicker, or 2.175 inches. It is made of "K.M.I." and the frame, of 25-20 chrome nickel. The barrel was cut from that of a Model 70 Winchester in .375 H. & H. Magnum caliber. It uses a 255-grain .38-55 bullet, sized .375 inch, in a case cut to a length of 1 9/16 inches from standard .30-30, .32 Special, or .38-55 brass. It handles a full charge of No. 2400 with modern No. 8½ primers, the case having no shoulder or bottleneck.

The bottom gun is made the same way for the same cartridge, with two material exceptions, the frame being made of low-carbon steel and the cylinder, of 18-8 chrome nickel steel. All guns are 5-shot single actions with top bolt locks that allow no movement of the cylinder when cocked. All have rod ejectors hung on the "continuations" of their base pins.

WEATHERBY .270 AND .257 'CATS

After the war we may expect one or more of our arms companies to bring out some form of a .280 Magnum as the logical load to fill the gap between the .270 Winchester and .375 Magnum, now occupied by the unsatisfactory .275 Magnum and .300 Magnum. These latter two are used solely on account of the lack of choice, as they are not enough better than the .270 Winchester and .30-'06, respectively, to interest the discriminating shooter. The .276 Dubiel Magnum (since improved by Griffin & Howe) and the .280 Dubiel Magnum (since improved by Niedner Rifle Corporation) initiated an interest in this size which is still growing and finding expression in modern wildcats based on Newton and belted cases for 7 mm., .270, and .280 bullets. The lesser version of these is merely a hepped-up .270 Winchester, such as the .270 PMVF and the modification of same by Roy E. Weatherby.



Top Cut: Ulery's three revolvers. Bottom: Hutchinson's free combat knives (see text)

After firing 300 rounds of heavy loads in his .270 PMVF Magnum, Weatherby reported from ⅛-inch minimum to ¼-inch maximum erosion ahead of the chamber. He had some of his loads chronographed by Cornish, whose figures came within 50 f.s. of factory figures in testing factory loads. In the .270 PMVF the Cornish muzzle velocities were as follows: 130-grain bullet and 70 grains No. 4320 powder, 3353 f.s. and with No. 4064, 3450 f.s. and with 76 grains No. 4350, 3436 f.s. With the 100-grain bullet and 77 grains No. 4320, 3818 f.s. and with No. 4064, 3922 f.s. With the 160-grain Barnes bullet and 73.5 grains No. 4350, 3147 f.s. The last load gave him 1¼-inch groups at 100 yards, and all the others seemed mild, none giving even signs of maximum pressures. Note that equal charges of No. 4064 added 100 f.s. above those of No. 4320 powder.

He tried the 130-grain bullet on deer at 500 yards and hit two, in six attempts at a long-range kill. The loads gave nearly 3500 f.s., and they were both credited with quick kills. With a 300-yard zero, he held about two inches above the back line for the two hits. One bullet was the Western O.P., and it damaged the shoulders even at that long distance. The other was the Silver Tip, in a chest shot, which caused excessive bleeding as the animal fell on its side and stayed there, without moving.

When Weatherby got his own chronograph working, his 73.5-grain load of No. 4350 gave 3225 f.s., and the 76-grain load gave 3468 f.s. These figures are, respectively, 78 f.s. and 38 f.s. higher than those registered by Cornish. At this time, he learned there was a four-grain capacity difference in favor of the Remington case over the Western case, after the latter had popped its primers. This load limitation applies also, of course, to the Winchester case which was used in the chronograph tests reported above. Additional loads tested later in this same case were: 120-grain bullet and 73 grains No. 4064, 3703 f.s.; 150-grain bullet and 75 grains No. 4350, 3310 f.s.; 95-grain bullet and 78 grains No. 4064, 4190 f.s. The latter load, alone, indicated maximum pressures, as the cases tended to stick in the chamber. However, they seemed all right, otherwise.

Then, on the .30-'06 and .270 Winchester cases, for his .25-caliber, Weatherby slightly modified the Venturi shoulder of PMVF type, making it less abrupt in net angle as he had done with the .270 PMVF Magnum. Since this was done after the first Cornish test, it may acount for the slight increase in velocities Weatherby obtained with his own chronograph. In mild-pressure loads this little .257 does all right, according to the following results from Weatherby's chronograph: 100-grain bullet and 52 grains No. 4064, 3520 f.s. and with 58.6 grains No. 4350, 3715 f.s.; 87-grain bullet and 54 grains No. 4064, 3785 f.s. and with 58.6 grains No. 4350, 3815 f.s. Then he put a flash tube in the case for front ignition, and it displaced about five grains weight of powder. Now 56 grains of 4064 gave the 100-grain bullet 3915 f.s. at mild-pressure levels, while the same load gave too much pressure without the flash-tube displacement, even with the lighter 87-grain bullet, although the velocity went up to 4015 f.s. With the flash tube and this bullet, 57 grains of No. 4064 gave too much pressure.

He also made a .257 Magnum with a similar shoulder on the big belted case and tested it quite thoroughly in Winchester and Western cases. I am reporting only those loads that showed mild pressures. With the 100-grain Barnes bullet and No. 4350 powder and unformed cases, 60 grains gave 3250 f.s., 65 grains gave 3600 f.s., 71 grains gave 3785 f.s., 72 grains gave 3875 f.s., 73 grains gave 3923 f.s., and 74 grains gave 3905 f.s. In formed cases, 66 grains gave 3575 f.s., 67 grains gave 3635 f.s., 69 grains gave 3740 f.s., 72 grains gave 3753 f.s., and 73 grains gave 3800 f.s. With the same bullet and No. 4064 powder in unformed cases, 60 grains gave 3560 f.s. and 62 grains gave 3718 f.s. In formed cases, 65 grains gave 3682 f.s. With the 87-grain bullet in formed cases, 60 grains of No. 4064 gave 3650 f.s., 63 grains gave 3875 f.s., and 64 grains gave 3940 f.s. In this combination, No. 4350 gave 4035 f.s. with a load of 72 grains weight, and 73 grains gave 4147 f.s. Behind the 117-grain bullet, 65 grains of this powder gave 3235 f.s. and very mild pressure.

Weatherby also tried the flash tube in his belted .257 Magnum case. With it and the 117-grain bullet, 70.6 grains of No. 4350 gave 3600 f.s. Without it 69.6 grains gave 3495 f.s. at the same mild-pressure level, and 73 grains gave the 87-grain bullet 3855 f.s., while with the flash tube, 73.6 grains gave this bullet 3845 f.s. As compared with the .25 PMVF, this belted .257 Magnum holds ten grains less powder, but it gives equal velocity with the 87-grain bullet and about 50 f.s. lower velocity with the 117-grain bullet.

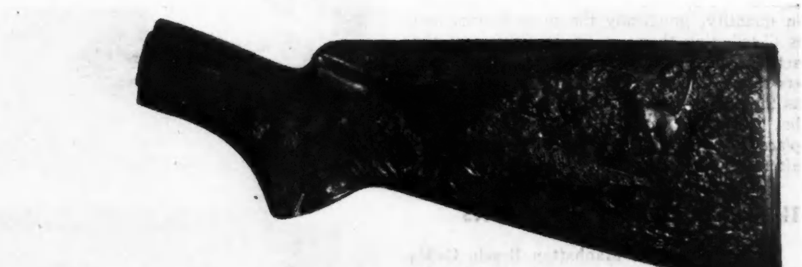
Since publishing velocity figures from Weatherby's first chronograph test of his .220 Rocket, on the Swift case, in the January Dope Bag, I have some more dope from him on these loads which indicates that 45 grains of No. 4064 in the Western-Winchester case equals 46 grains in the Remington case, and that in a given case two grains more of No. 4320 powder is required to equal the velocity of No. 4064 loads at the 43- and 44-grain levels.

His friend, George W. Fuller, altered the .220 Swift to hold 50 grains of No. 4320, or 48 grains of No. 4350, and he uses up to 43.5 grains of the former and up to 47 grains of the latter behind the 55-grain bullet for less-than-a-minute spread with all loads, including equivalents of No. 4064 powder. Heavier loads immediately open the groups. His barrel is freebored for ⅜ inch and it will put the factory load into 1½ inches at 100 yards with more than two-thirds of them in less than an inch. When chronographed, his 55-grain load made 4000 f.s. even with 45 grains of No. 4320 powder. Fuller's case holds two grains more than the .220 Rocket.

T. K. Lee said his .22 Krag case had a shoulder slope between that of the Senior Varminter and the Bluestreak, both of which were pictured in the January Dope Bag. He said his TKL-Krag was very docile and accurate, as any sort of load seemed to shoot fine in it.

The usual load in the .22 Niedner Magnum behind the 55-grain bullet is 26 grains of No. 3031. Tom Gresham had his Farquharson chronographed with an extra grain (27 grains), and the 3-shot mean was 3340 f.s.

Among many others, Lysle D. Kilbourn believes the relatively long, slender case is more efficient than the comparatively short, squat and fat one, and points to the Bluestreak and his .22 K-Magnum as superior to such cases as the Niedner Magnum. A greater number of opponents point to the superiority of the .22 Varminter and .220-30 over the standard .220 Swift. One of my correspondents, whose identity must be withheld, believes that, with equal shoulders, orifice, and capacity, length makes no difference, except that the squat, fat case might be more adaptable to different propellents and weights of loads, and that capacity or density of load with an arbitrary powder determines pressures and velocity regardless of case shape.


Ness' Shotgun Stock for Model 12 Pump Gun as carved on both sides by Frank J. Pince

In three different .22 caliber rifles, with the 55-grain Sisk Express bullet, he obtained from 3400 to 3500 f.s. at pressures ranging all the way from 35,000 to 42,000 pounds. The lowest pressures were obtained in the quickest rifling twist contrary to the usual expectation. With jacketed bullets, and with velocities between 3500 and 3800 f.s., a total of 550 shots developed no visible erosion in the throat of his plain "fluid-steel" barrel, although he said he could detect some wear from the passage of his hard jacketed bullets. In a plain carbon-steel barrel, of .305-inch bore and .313-inch grooves, he used .306-inch and .309-inch jacketed bullets, at 3100 f.s., and 1000 rounds failed to develop signs of erosion, although the barrel was far from new in the beginning. His .405-W case has a 30-degree shoulder and uses 45 grains of Hi-Vel No. 2 or 49 to 50 grains of No. 3031, and the larger bullet gives "minute" groups.

He uses a regular throat and subdiameter bullets without finding excessive erosion. Harvey Donaldson used a gentle throat and an oversize bullet-fit in his 2R Lovell with minimum erosion, while others use the regular bullet-fit and a pronouncedly abrupt throat to mitigate erosion. Neither of these two shooters, to my knowledge, used special barrel alloys to reduce erosion, but Winchester did so, effectively, in their .220 Swift, after the first issue showed an accuracy life of only 500 rounds. Later issues lasted for at least 1500 to 2000 rounds.

FIREARMS DECORATION

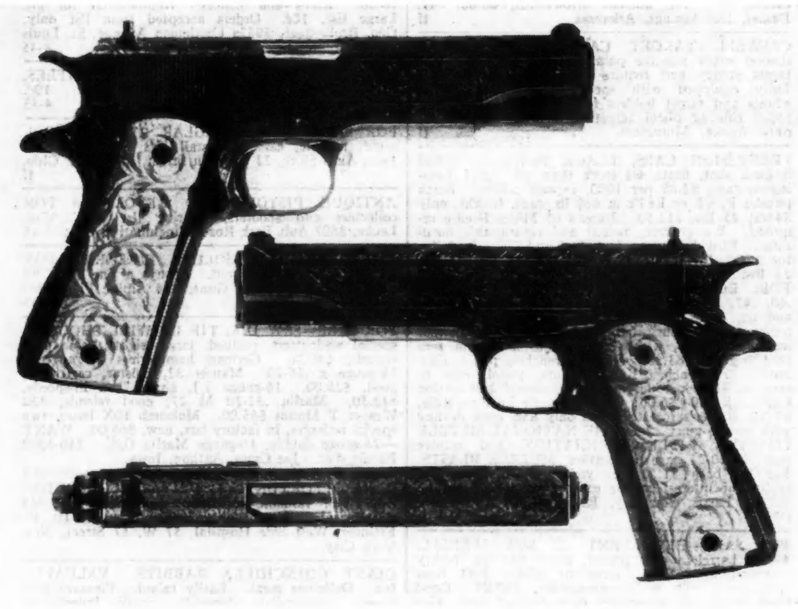
I have admired Kornbrath's art work on pistols and have watched an engraver at work on shoulder arms, at Griffin & Howe, and have even owned rifles and shotguns already etched or engraved when they came to me, but I had no idea that I would get such work done to order until Bob Brownell talked me into shipping my pet .45 National Match to Agee. The Agee of Beaumont, in Texas. He does standard "A", "B", and "C" grades of engraving at some such scale as 15, 25, and 40 bucks, perhaps on the general order and the extent of the same grades shown in Stoeger's catalogue, but what I have in mind is Agee's custom work at higher prices.

The job shown on my pistol is worth 50

bucks, and he is now doing a hundred-dollar job on my .357 S. & W. Magnum. The custom part of it refers chiefly to the pattern, and the price is based largely on the degree of coverage. For example, he completely covered one customer's handgun with symbols of different Southwest cattle brands. On my pistol, I asked for the conventional scroll pattern already carved into my Mittermeier ivory stocks. I am getting a motif of Western big game applied to my Magnum, because Doug Wesson had killed elk and bear and other Western game with this revolver. It is going to be tough for Agee to meet the high standard of excellence set by Kornbrath, because the fine job he did on my pistol has led me to expect no less than perfection on my revolver. Bob Brownell showed his expert hand at polishing on this pistol job, and he finished it nicely with his "How To Blue." A carved leather belt holster, by Captain A. H. Hardy, its edges neatly whipped with white rawhide to match the stocks, completes this handsome outfit.

Wood carving is another form of decorating that can be very effective when properly executed. It requires a knack, a flare, and a touch. Al Ljutic picked our Handee Grinder from our reloading bench, one day, and took a small block of wood in his other hand. In a few minutes a full-blown rose appeared, in bold relief on the middle of the block, under his swift sure strokes with the grinding wheel. **Frank J. Pince**, who could be contacted (before the war) at Kennedy Brothers' Arms Company in Saint Paul, has carved some stocks for presentation or exhibition guns and, like an engraver, he covers the wood completely with his art work, except where the cheek rests. As a reward for my failure to call on him, he sent me an example of his work in the form of a buttstock for the Winchester Heavy Duck Gun which I was shooting at the time. From the shoulder, this stock worked as unobtrusively as any plain one, but I was afraid of marring the beautiful thing and removed it. Many NRA visitors have seen it, above my gun rack, and I am showing both sides of it here for those who have not had this privilege.

Aside from adding beauty to a gun, through eye appeal, carving and engraving have a practical worth. Carved grips of wood or ivory afford a sure grasp even to sweaty hands, and engraved gun metal, done by an expert, remains attractive much longer; an enduring attractiveness that hides small pits, scratches, and other minor but unsightly blemishes which would disfigure a plain surface. An area covered with tasty engraving never looks bad, even when badly worn, nor looks unfinished even after the original finish has worn off completely.



Ness' .45 National Match Pistol with Mittermeier carved stocks and engraved by Agee (see text)

TRADE DOPE

Herbert Longo, 390 E. 153 St., N. Y. City, can furnish .38 Special shooters with match-grade cast bullets from his Hensley molds, No. 36, in 155 grains, and No. 17, in 158 grains. They are individually inspected and selected, he says.

* * *

Remington Arms Co. advises hunters not to use military ammunition, citing the 14 fires recently reported caused by tracer ammunition in Los Angeles County. Much good sense is embodied in this advice, and I'd include all unfamiliar foreign ammunition also. Some of the pistol stuff that fits our arms is overloaded, being intended only for submarine guns.

* * *

G. T. Smiley Co., of San Fernando, Calif., has sent us a cutoff tool with a case holder for same to be used with the stop bar. It makes for greater comfort and convenience, but the cases also can be held by hand for cutting. This tool accommodates the same holder plates (for different sizes of cases) as does the Smiley Standard Trimmer; the latter for reaming the mouth and neck after cutting and necking. The trimmer is still working. The cutoff will be tried later.

* * *

G. B. Gaumer, 4028 Parrish, East Chicago, Ind., can remove nickel plating for refinishing. Write him before sending any work.

* * *

Clarence A. Hill, of Dixon, Ill., has his new mount adapted for all bolt action rifles by means of an added recoil shoulder.

* * *

Bill Klapp, of The Original Sight Exchange, Paoli, Pa., has sent for trial a quick-acting army-type waterproofing compound for leather. No preliminary drying is necessary.

* * *

Help! Urgent! T. K. Lee is getting more orders than he can possibly handle, and he alone can install those tiny center dots and finer crosshairs. He has had to stop all his dealer business, and now asks direct customers to withhold all requests for at least a month. Don't send scopes or orders for reticules until T. K. again advertises for them.

* * *

Kimball Arms Co. says its new catalogue, No. 12, on antique arms was ready before March. Don't forget to send them two bits.

* * *

Disney & Stryker, of Red Bluff, Calif., say they need the customer's Springfield bolt only, and have to remove the lower "inspection" notch, for installing their new safety, which locks the Model 1903 handle closed, against accidental lifting and misfires in hunting.

* * *

Lead Wire Source. Paul Bossemyer, of Indianapolis, Ind., makes R.C.B.S. bullets and has sent me a sample of his favorite core wire obtained from The Eagle-Picher Sales Co., 435 Reading Road, Cincinnati, Ohio. I like its full .203-inch diameter, and it seems pleasingly uniform.

* * *

New Redfield Sight. The Redfield Gunsight Co., of Denver, Col., sent us a sample of their low-cost, No. 102-N, receiver, peep sight for the Remington autoloading rifles Model 8 and 81. Neat and sturdy, it fits the rear hump of the receiver and may be aligned with the barrel sight before removing the latter, at a saving of time and ammunition in initial zeroing.

* * *

New Address. Since the death of William A. Lamb, the Industrial Products Company, of "IPCO Wad" fame, has been operated by his former associate, William W. Perkins, at Box 14, Wakefield, Mass., which address should be used henceforth.

* * *

William Kirsh, custom gunsmith of 2002 Dedondo Boulevard, Los Angeles, Calif., showed us his "white bead" shotgun sight, a new idea in design if not in principle.

THE ARMS CHEST

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2. All Orders Subject to These Conditions: WE reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

3. Who May Advertise: The ARMS CHEST is an *open* market trading post. Any individual or firm whose advertisement and methods of doing business meet our requirements may advertise their goods or services.

4. Rates: All classified advertisements must be accompanied by remittance. The rate is 10 cents per word, including name and address—minimum charge $1.50.

5. How to Count Numerals, Etc.: Groups of figures are counted as one word (example: .30-30, 250-3000, $150.00, $1.50). Abbreviations consisting of initials or single characters likewise are counted as one word (example: W. H. Smith; H.B., meaning heavy barrel; HP., meaning highpower). Hyphenated words are counted as two words (examples: 20-gauge, pearl-handled, no-slip).

6. "For Sale" Ads Must State Price: A specific price must be stated on all FOR SALE ads—except that the phrase "write for catalog" may be used when listing real estate or merchandise in quantities.

7. Firearms for Sale or Trade Must Be Defined: The *condition* of every gun (including essential parts) advertised for sale or trade *must* be specified according to *NRA standards*, as follows: PERFECT—meaning factory condition; EXCELLENT—meaning new condition, implying negligible amount of use; VERY GOOD—meaning practically new condition, implying little use, with no appreciable bore wear and only minor surface scratches or wear; GOOD—meaning moderate use with some finish worn off, only moderate bore wear, with no pits and nothing worse than a little roughness in the bore; FAIR—meaning no parts missing necessary to use of gun, reasonable wear inside, and out, nothing worse than minor pits in steel or stock, gun sufficiently accurate for hunting; POOR—meaning marred appearance and pitted or badly worn bore.

8. Non-Specific Phrases Barred: Phrases such as "highest" or "top prices paid", as well as any other so-called "auction-type" phrases are not acceptable. The terms "fair price paid" or "state price wanted" may be used.

9. Blind Ads Not Acceptable: Box number or blind ads will not be accepted. Give your complete name and address, to insure prompt delivery of all mail or telegraph replies.

10. Requesting Privilege of Examination: Purchasers desirous of examining merchandise before acceptance should request shipment by express, C.O.D. with examination privileges. This procedure permits the purchaser to inspect the merchandise *in local express office* and authorizes the express company to return unsatisfactory merchandise at shipper's expense.

11. OPA Ceiling Prices: An agency of the Federal government has legally fixed the prices of various commodities, including dealer and individual sales of ammunition (except handloads), and firearms, both new and used, except guns personally owned by individuals, acquired for their own personal use. Attempts to evade ceiling prices are violations of Federal statutes. It is physically impossible for us to ascertain whether or not firearms advertised in the Arms Chest are "personally owned" or to check advertised prices against legal ceiling prices. This is the responsibility of the advertiser, and advertisements offering to buy or sell merchandise at higher than legal prices will, when called to our attention, subject the advertiser to the penalties mentioned in paragraph 1.

12. Federal Explosives Act Defined: Under the Federal Explosives Act of 1941 all buyers, sellers, and possessors of gunpowder (not complete cartridges) must be licensed. Explosives licenses are usually obtainable from county court clerks. Purchasers must submit such license or a certified copy thereof to the seller at time of sale.

13. "Outlawed" Firearms Defined: The sale of certain firearms is outlawed by Federal law unless handled by a Federally licensed dealer. These included machine or submachine guns; sawed-off rifles and shotguns with barrels of 18 inches or less, and Mauser and Luger auto pistols *with holster stocks.*

14. Responsibility for Illegible Copy: Type or print advertisements plainly, as we can not be responsible for errors due to illegible writing.

15. Closing Date: The closing date of all advertisements is the 5th of the month preceding month of issue.

FOR SALE

YOUR GUNS WILL BRING YOU MORE CASH or greater Trade-In Allowance at Klein's because we're America's Foremost Gun Dealers. Most complete selection new and used Guns ($5 to the finest). We also buy, sell, trade Ammunition, Reels, Rods, Outboards, Binoculars, etc. Describe your merchandise fully. "Guaranteed Bargain Spring Catalog" featuring thousands of "hard-to-get" items; send 25¢ (refunded with first order). Klein's Sporting Goods, 501TE South Halsted, Chicago 7, Illinois.

FOR SALE—WINCHESTER MODEL 40, SKEET, Cutts compensator brand new, $120.00. Winchester Model 12, 12-gauge, 30" barrel, full choke, excellent in, very good out, $50.00. Corona folding typewriter #3, rebuilt with case, $25.00. Money order. Member. F. L. Larson, Park Street, Marquette, Michigan.

FOR SALE—DE LUXE ENFIELD '06, 330B Mount, $160.00. Mauser Sporter '06 peep rear, cheekrest, $125.00. Mauser '06 engraved sporter, $160.00. Winchester 94, .30-30, $50.00. G and H custom .30-40, $200.00. Krag Sporter checkered peep sight, $60.00. Springfield Match Sporter, 24 inch, 11 lbs., 48 peep sight, $100.00. 18 lb. cap and ball target, $85.00. Ithaca No. 4, 30" full and improved cylinder, $130.00. No. 5 single trap, $180.00. No. 4, $140.00. Chas. Darlin 20 engraved 28 F&M beautiful, $200.00. Winchester 16 trap, rib, Cutts compensator, etc., $140.00. Model 40, 28 mod., $125.00. All guns excellent. Cash for your good guns. Hershey's, Orrville, Ohio. Phone 1086.

ADULT BOOKS FOR YOUR PERSONAL LIbrary. Illustrated sample and catalogue, 10¢. Alstone, 304, Lunenburg, Mass. tf

PATENT PROTECTION. INFORMATION AND Invention Record Free. Randolph & Beavers, 370 Columbian Bldg., Washington, D. C. 12-45

INDIAN RELICS, CONFEDERATE BILLS, coins, minerals, gems, fossils, crystals. Illustrated catalog 5¢. 100 ancient arrowheads, $3.00. H. Daniel, Hot Springs, Arkansas. tf

CASWELL TARGET CARRIERS GIVE THE shooter every possible point because they hold the target steady and require no exertion to operate. Fully equipped with speedy ball-bearing pulley wheels and target holders for every type of indoor paper rifle or pistol targets. Caswell Target Carriers, Anoka, Minnesota. tf

PERCUSSION CAPS, BLACK POWDER, BIRD & buck shot, flints, we stock them all. #11 Remington caps, $2.85 per 1000, express collect. Black powder F, FF or FFFg in 6¼ lb. cans, freight, only $4.00; 25 lbs. $12.50. Bureau of Mines license required. We endorse, record and return this document. Bird shot, sizes, 3, 4, 5, 6 and 7½ soft, 5 lbs. for $1.00, 25 lbs. for $4.75; chilled 4½ lbs., $1.00; 25 lbs. for $5.00; specify express or freight, sold FOB. Buck shot, sizes .27, .30, .32, .34, .36, .375, .40, .42, .43, .44, .48, .50, .53, .58, .64, .65, .66 and 68, 5 lbs. $1.00, 25 lbs. $4.75, FOB. Minie bullets, .575, lubricated, $3.25 per 100. Powder measure charger, with funnel, adjustable from zero to 100 grains, $3.50. Nipple wrenches, pistol, rifle. musket 75¢ each. English flints, pistol, rifle or musket, $1.00 per dozen, books Roberts' 2nd edition Cap Lock Rifle $6.00; Cline's Muzzle Loading Rifle. $7.00; Baxter's for Beginners only 85¢, each dealing with muzzle guns. Join THE NATIONAL MUZZLE LOADING RIFLE ASSOCIATION and receive monthly 20-24 page publication, MUZZLE BLASTS. Fee for both $1.50 per year. Learn about the revival of interest in the early guns of our nation. E. M. Farris, Secretary, RR YMCA, Portsmouth, Ohio. tf

FOR SALE—EXCELLENT .38 S&W SPECIAL, 4-inch barrel, nickel plated, pearl handles, plenty ammunition, $85.00. Excellent caliber 7.62 Russian Army rifle with ammunition, $30.00. Good Carl Zeiss 6X binoculars with leather case, nice compass on top of case, $75.00. Snowden Lambert, Scottsville, Kentucky.

FOR SALE—KENTUCKY RIFLES. MUZZLE loading shotguns. Breech loading shotguns. 50 shells, $8.00. Rifles and pistols. Ammunition for all. Large list, 10¢. Orders accepted from list only. Geo. Brullesauer, 3957a Castleman Avenue, St. Louis 10, Missouri. 4-45

NEW LIST OF MUZZLE LOADING RIFLES, Kentuckies and Military Arms now ready. 10¢. T. J. Cooper, R7, Meadville, Penna. 4-45

FOR SALE—AUTO BURGLAR ALARMS, FOOL proof, reliable, easy to install, fits all cars, $2.00. Penn Auto Store, 22 S. Main Street, Mansfield, Ohio. tf

ANTIQUE PISTOLS AND REVOLVERS FOR collectors and shooters. Spring list 25¢. Wm. Locke, 3607 Ault Park Road, Cincinnati 8, Ohio. 5-45

ANTIQUE AND OBSOLETE FIREARMS FOR collectors bought and sold. Always a fine stock on hand. "The House of Guns," 34 Alpine Place, Arlington, New Jersey. 11-45

FOR SALE—S&W D.A. TIP UP WILL SHOOT 44 special wadcutters, reblued, target sights, some pits, reloads, $40.00. German hammerless 16-gauge x 16-gauge x .25-20. Mauser 32, holster, cartridges, good, $25.00. 16-gauge I.J. single, box hi-speeds, $12.50. Marlin .32-20 M 27, good reloads, 330 Weaver T Mount $65.00. Malcomb 10X bases, two special reticules, in factory box, new, $65.00. WANT—28-gauge double, 16-gauge Marlin O/U. 250-3000 Pacific dies. Joe Cross, Anthon, Iowa.

RARE OPPORTUNITY! PRIVATE COLLECTOR would sell valuable collection, (68 pieces), of old weapons of different types. Principles only. Dr. H. Ettinger, West Side Hospital, 57 W. 57 Street, New York City.

GIANT CHINCHILLA RABBITS. VALUABLE fur. Delicious meat. Easily raised. Pleasant pastime. Tremendous demand. Small investment. Large profit. WILLOW FARM, R82, Sellersville, Pa. tf

NEW CLASSIFIED RATE

EFFECTIVE WITH THE JUNE ISSUE 1945, the rate for classified ads will be 15 cents per word, minimum charge, $2.00; maximum number of words to one advertiser, 100. Name and address are included in word count and remittance must accompany the copy. This adjustment brings the classified rate more nearly in line with the display rate. Closing date remains the 5th of the month except that we reserve the right to limit advertising by publishing ads in the order received up to the limit of available space.

GIVEN! KLEIN'S SENSATIONAL 8-PAGE SPECIAL Bargain List of available new and used guns, just compiled, now yours at no extra cost with purchase of America's amazing new gun book masterpiece, "The Gun Digest." Largest (164 over-size pages), most informative (629 dynamite illustrations), most comprehensive (25 complete sections), most authoritative (edited by 14 eminent gun experts) encyclopedic volume of its kind in publishing history. All current U. S. rifles, shotguns, handguns brilliantly illustrated, fully described (including authentic specifications). Loaded with how to shoot, hunt articles, money-saving tips, valuable reference data, helpful tables, charts, diagrams. Send $1 (plus 10¢ for postage, handling). Money-back guarantee. Klein's Sporting Goods, 501E South Halsted, Chicago 7, Illinois.

FOR SALE—MANNLICHER SCHOENAUER CARbine, Lyman 36, good in, fair out, 64 shells, $110.00. Johnson SeaHorse Outboard, K50, good, $150.00. Enfield .30-'06 Sporter, perfect in, good out, Redfield rear, $85.00. Winchester 70, .250-3000, Lyman 48, Weaver 330, Redfield Jr. Mount, 7 boxes shells, excellent, $195.00. Remington Model 8 Automatic, .25 caliber Lyman 1A, 8 boxes shells, good, $85.00. Winchester Model 12 Magnum trap grade, 10 boxes Magnum shells, excellent, $200.00. Send $5.00 for C.O.D. examination. R. S. Cook, Alpena, South Dakota.

FOR SALE—EXCELLENT .45 COLT REVOLVER, 50 cartridges, $70.00. Very good Ithaca. 10-gauge double barrel shotgun with 32-inch barrels, $45.00. Walter G. Hayes, 95 Clinton Street, Lowville, New York.

FOR SALE—STANDARD M70, 220 SWIFT, Stith mount, 440 Weaver. Barrel and action very good, stock good. 567, 48-grain Western bullets, 417 Remington 9½ primers, 150 new primed cases, 63 loaded cartridges, 28 cases, 3 lbs. 4064 powder. Guarantee 2 min. groups at 200 yards. Mounts for Fecker scope, $200.00. John Lind, Thief River Falls, Minnesota.

SPECIAL—MEN'S WRISTWATCH STRAPS, GENuine leather, $2.00 value all widths, Black or Tan, 79¢ each postpaid. All leather combination Wallet and pass case, Tan or Black, $1.00 each postpaid. Forward money order. Leather Specialties, 1840 Gladstone Street, Phila. 45, Penna.

FOR SALE — EVINRUDE SPORTFOUR 16.2 horsepower with two propellers in very good condition, recently overhauled. Serial Number 9000114, $265.00. Robert Shively, 205 Orchard Street, Marion, Ohio.

FOR SALE—WM. EVANS, LONDON, 12-GAUGE best quality box locks, oak leaf relief engraving, beautiful dark Circassian stock, gold initial plate, stock straight. 28" Imp. & mod., 14 x 1-7/16 x 2½, 6 lbs. 2 oz., cost $600.00. C.O.D. $395.00. Fine condition. Evans formerly with Purdey. H. J. Ferry, Longmeadow, Massachusetts.

FOR SALE—CASH ONLY—K-22, HOLSTER, GRIP adapter, perfect, 500 cartridges, $75.00. Model 70, .257 Standard, 48 WJS, Lyman Super Targetspot with mounts. Walnut case. Both perfect. Approx. 280 Kleanbores, 117-100-87-grain, some empties, $270.00. Enfield Sporter, hooded ramp front, Redfield micrometer rear, cheekpiece, aluminum buttplate, excellent in, very good out, 40 Peters 225-grain belted, 100 assorted others, $65.00. Winchester 52, 17A Front, 48 rear, Standard bbl., excellent in, very good out, 500 cartridges, $75.00. Ithaca 10-gauge 34-inch full choke, very good in and out, 100 or more shells, $70.00. Ranger 4X scope with mounts, good, $12.00. All above for $550.00 plus six cans DuPont 6, two cans Number 5, 500 Remington 1½ primers, 250 Remington 2½, assortment .30.'06, .30-40, .38 S&W Long, 12 and 16-gauge shotgun shells, hundreds of .38 Special empties, cast lead bullets for .38 Special and other items. Captain Albert W. Munson, Station Hospital, Mitchell Feld, New York.

FOR SALE—COLT, REMINGTON AND OTHER cap and ball revolvers, all calibers, muzzle loading long guns, moulds and flasks. List 10¢ in stamps. E. C. Ward, 406 Wilcox Bldg., Los Angeles 12, Calif. 9-45

FOR SALE—WINCHESTER .33 CALIBER, EXcellent in and out. 10 boxes softpoint shells. $100.00. Money order. E. St. Amant, 988 County St., Fall River, Massachusetts.

FOR SALE—22 POLICE POSITIVE TARGET, $50.00. 22-32, $35.00. 1917 S&W, $50.00. Ammunition included. Write for details. Geo. V. Cummings, Harrison St., Dover, New Jersey.

FOR SALE—REMINGTON MODEL 31-D, 12-gauge Tournament grade, beavertail forearm, 26" ribbed barrel, Cutts compensator, three tubes. Engraved receiver, pistol grip, checkered stock, white line recoil pad, excellent, first $195.00 money order. Lyman Alaskan scope, tapered post and X-hair, Redfield Junior mount for M-99 Savage, very good. First $85.00 money order. Member. S/Sgt. W. P. Nietz, 3018th A.A.F.B.A., Sqdrn. B. K.A.A.F., Kingman, Arizona

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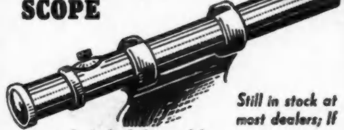
This Was Four Years Ago!

Sergeant Smith is a sniper now — on a red hot front. But in his dreams he still goes back to the days when he and his good friends used to go on hunting trips. He hears the crackle of the camp fire — and sees that six-point buck through his Weaver 330 Scope instead of a German artilleryman. He's using a Weaver 330 now — issued by the army for his sniper's rifle —and his shooting eye is keener than ever. Some day he'll get back to his hunting trips again — and his sturdy, accurate Weaver 330 Scope will again help him to get the game!

The **WEAVER SCOPE**



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The **WEAVER-CHOKE**

Six interchangeable choke tubes make your shotgun an all-purpose gun, every thing from skeet to long range ducks.

$9.75

Complete with any 2 choke tubes

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Scopes and Chokes

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FOR SALE—FOX STERLINGWORTH—D.B., 12-gauge mod. and full 30", excellent, $65.00. Winchester 52, Lyman scope, speed bolt, sling, etc., perfect, $125.00. Model 99 Savage, .250-3000, Lyman sights, 3 boxes ammunition, perfect, $125.00. Model 11 Remington 12-gauge automatic, 5-shot, raised rib, excellent, $125.00. Baker trap, custom grade, ventilated rib, cheek pad, good, $100.00. Lefevre trap, ventilated rib, double ivory sights, 32" barrel, perfect, $35.00. L. C. Smith, D.B., mod. and full, field grade, excellent, $55.00. Howard, D.B., both choke, 30", good, $45.00. Remington, L. C. Smith & Graner 12-gauge D.B. shotguns, $18.00 to $25.00. Camp Perry-Colt, perfect, $70.00. 38 New Service Colt on 45 frame, micrometer sights, excellent, $65.00. 45 S&W, Model 1917, shoots .45 automatic cartridge in clip, good, $45.00. Lee V. Quidort, 26th & New York Avenue, Wildwood, New Jersey.

FOR SALE—KILBOURN HORNET WINCHESTER 54, New 330 Weaver, post reticule, Redfield Jr. mounts, rubbed stock, altered bolt and magazine, graphite treated action, also original sights, Whelen sling, lined scopesize case, reloading tools complete with Kilbourn resizer, 100 factory shells, all very good to excellent, $188.00. Univex A-8 movie camera with case, film. TRADE for .22 revolver or what have you? Roy Bakkum, Waukon, Iowa.

FOR SALE—EXCELLENT SAVAGE .250-3000 Model 99 carbine, oiled stock, Weaver 330, T mount, extra Lyman tang sight, 44 boxes handloads, 1 box factory, 26 empty cases, $145.00. Colt Woodsman 4½", Franzite grips, 200 shells, excellent, $70.00. S&W .38 Special, 5", excellent in, slight holster wear, 1 box factory loads, $45.00. 30, Lefauchenx revolver cartridges 12mm pin-fire, $3.00. First money order. WANTED—Excellent .270 Winchester Model 70, with cartridges. 6-power binoculars, Weaver 29s, wrist compass. Glenn M. Satran, Ogallah, Kansas.

FOR SALE—COLT OFFICERS' MODEL .22, VERY good, $65.00. Winchester .52 HB. Details of this gun on request. Colt Camp Perry, good, $45.00. Money order. R. M. McQueen, Ridgeway, Iowa.

FOR SALE—WINCHESTER MODEL 54 HORNET, Lyman 48 receiver, hooded front, Lovell loading dies, 50 factory loads, 100 empty cases, sling, very good, accurate, $95.00. Harold Hemmelgarn, RR 1, Box 105, Maria Stein, Ohio.

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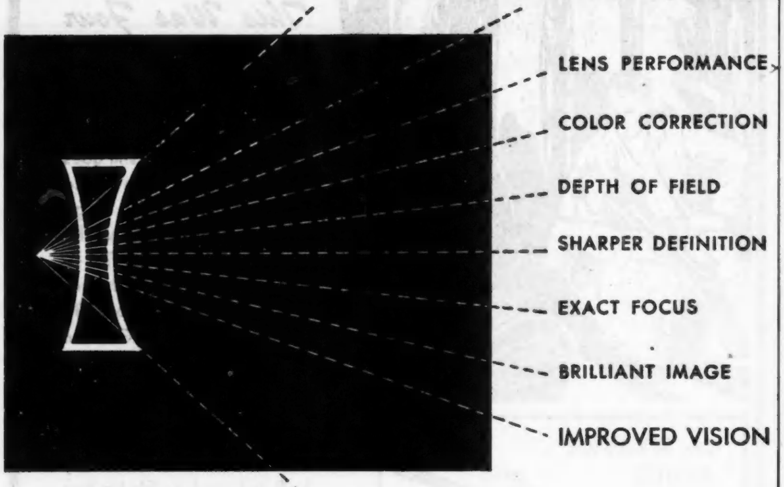

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. . . determining the exact path a ray of light will traverse in passing through a lens system . . . involves the use of extremely accurate calculations by Argus Optical Engineers and Designers, requiring results accurate to approximately 1/10,000,000 of an inch. The residual amounts of spherical and chromatic aberration, coma, astigmatism, distortion and lateral color are carefully analyzed . . . appropriate changes in the lens formula are made, before the design is accepted, to produce for Argus Cameras, Spotting Scopes and Optical Instruments the sharp, clear image quality of Argus lenses.

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FOR SALE—WINCHESTER 22 HI-SIDE .25-35, heavy 30" bbl., good out, perfect in, open sights, six boxes shells, $87.50, two new clips for .22 Winchester #2 bucks. Henry Webelhuth, Monica, Ill. Member.

FOR SALE—30 LUGER, SOME BLUE WEAR, holster, white plastic grips, fifty rounds, 100 empty cases, 1000 primers, near new, two cavity mould, $50.00. One B Hi-Standard, poor blue, 50 rounds, $37.50. First money orders. H. W. Fellers, Natoma, Kansas.

FOR SALE—STEVENS, 44½, 22 L.R., DILLER relined. Fair out. 8-power Stevens scope. Curley walnut stock, first money order, $45.00. Both. Forrest Davidson, Boonville, Indiana.

FOR SALE—45 AUTOMATIC M1911, NEW BARrel, 40 rounds, holster, very good, $65.00. Money order. Major P. H. Wyckoff, 523 Lake St., Asbury Park, New Jersey.

FOR SALE—THREE H.P. WATERWITCH OUTboard motor, excellent, with spare propeller, used very little, $55.00 F.O.B. King Stevens, Cynthiana, R. 2, Kentucky.

FOR SALE—52 WINCHESTER, EXCELLENT INside. Very good outside, peep sight and 10X scope. Sling, sheeplined case, 300 L.R. shells, $95.00. Eugene Smallwood, Marysville, Route 1, Ohio.

FOR SALE—WINCHESTER 54 HORNET, REDfield 102 rear, 65 cartridges, very good in and out. First money order, $62.00. W. L. Crosby, Calais, Maine.

FOR SALE—SPRINGFIELD .45-70 RIFLE, GOOD, $10.00. Italian bolt repeater, fine, shells, $17.50. Colt .38 Army, 6" blued, fair, $16.00. Colt 32 Police, 4" blued, excellent, shells, $36.00. Corona #3 portable typewriter, good, case, $25.00. Ralph Drake, Osborne, Kansas.

FOR SALE—ONE 30 LUGER, 3½" BARREL, good or better with some ammunition—$50.00. No c.o.d.'s. Ed. O. Josucks, Belfield, North Dakota.

FOR SALE—NEPTUNE TWIN 16 HP USED very little, $250.00. Arthur L. Rees, Rifle, Colorado.

FOR SALE—WINCHESTER 52 STANDARD, 17A front, 48F rear, Unertl 10-power 1" scope, both perfect, Unertl grip, sling, whole outfit, $150.00. 32 Savage automatic pistol, Audley holster, both excellent to perfect, $35.00. Colt .38 Special, 4½" Commando, new-perfect, $50.00. 401 Winchester auto rifle, excellent, 2 boxes cartridges, $125.00. No trades. Dewey, West Bend, Wisconsin.

FOR SALE—WINCHESTER MODEL 12, 16-gauge, raised matted rib, Poly Choke equipped, extension beavertail forearm, pistol grip, checkered, capped, Watkins recoil pad, ivory beads, excellent in and out, 100 shells. $110.00. First money order. No trades. Jack V. Gaston, 1858 E. Schiller Street, Philadelphia 34, Penna.

FOR SALE—RANGER-BROWNING, 12-GAUGE, slide action, 5-shot, 30-inch, full, excellent in, excellent out, 2 boxes shells, $50.00. Ranger, .22 automatic, 15-shot, 24" barrel, perfect in, excellent out, Weaver 344, 4-power scope, sling strap, 4 boxes Long Rifle shells, $50.00. Money orders. Forest Goodyear, 16 Randolph Avenue, Randolph, Vermont.

FOR SALE—REMINGTON MODEL 30 EXPRESS. 30-'06, 16 cartridges, condition good, $75.00. Inspection privilege. James Ransehousen, USNR, Bridgewater, Vermont.

FOR SALE—ONE COLT, 38, O.M., 6", H.B., PERfect, Sanderson stocks. One Colt, .22, Match Target, Woodsman, perfect, Sanderson stocks. One Mossburg spot shot scope, Field, approximately 7½ ft. at 100 yards, perfect. One pistol box, excellent for three pistols, for two above listed and 22 O.M. 6". 500, .22 Long Rifle cartridges, Target Masters. 100 Wadcutters 38, factory loads. First money order for $260.00 gets whole shebang. World War 2 Veteran, Louis P. Rabalais, YMCA, Shreveport, Louisiana.

FOR SALE—WINCHESTER SUPER GRADE 54, .30-'06, Winchester custombuilt, high comb, horn tip, sling, 48W, target scope bases, Lyman Alaskan, D.L. Griffin & Howe mounts, altered bolt, ideal safety, excellent in, very good out, 2 boxes factory and 2 boxes handloads, target accuracy, $285.00. Kentucky Ballard relined .22 L.R., 30" barrel in white Lyman micrometer 103 rear, globe front, beautiful handcarbed walnut stock and pad, 1¼ 'sling and pad, gun crank accuracy, 500 assorted 22's, $85.00. Leitz 6 x 30 C.F. Bidoxit perfect optically and mechanically, featherweight with case box and straps, $135.00. First Money Orders. Life Member. Verne Shafer, Baroda, Michigan.

FOR SALE—NEW WINCHESTER .22 CALIBER repeating rifle, $32.50. German .25 caliber automatic, very good in and out, $16.00. 32 Colt automatic fair in and out, $24.50. 32 topbreak, fair in and out, $9.00. Louis Renzi, Burlington, New Jersey.

FOR SALE—45 COLT SINGLE ACTION, REblued, very good inside, Franzite ivory eagle grips, carved Myres holster, 24 cartridges, $53.00. Malcolm 8X scope, C mounts, perfect, $28.50. Frank Miller, Jr., Beaman, Iowa.

FOR SALE—MODEL 64 WINCHESTER, NEW, 219 Zipper, Weaver 440 scope, crosshair, Stith mount, 3 boxes shells. $118.00 money order only. No trades. Mrs. W. D. Aud, 9006 Colesville Pike, Silver Spring, Maryland.

FOR SALE—8 x 24 HENSOLDT BINOCULARS, central focusing with leather case, and carrying strap. Excellent condition, $80.00. F.O.B. Tacoma. 30-'06 Model 720 Remington, like new, wtih 330 Weaver scope, special mounts, sling strap, recoil pad, and other extras. A fine accurate rifle, $165.00. F.O.B. Tacoma, Washington. Have plenty of ammunition. Tom Bowdish, Rt. 4, Box 73, Tacoma, Washington.

FOR SALE—SUPER GRADE M70 HORNET, INterchangeable G&H mounted 440S and Lyman Alaskan, 350 cartridges, good plus, $225.00. Ithaca M37, 16-28, 50 shells, perfect, $60.00. 38 O.M., new h.b., factory reconditioned, 800 empties, 3,000 primers, tool, mould, holster, $75.00. 1917 S&W .45, 50 shells, good, $40.00. WANT—Varminter, .257, Woodsman, M-75 Sporter. J. W. Talley, 710 Monroe, Roanoke Rapids, North Carolina.

FOR SALE — 1½ HORSEPOWER NEPTUNE Trowling motor, new condition, price $37.50. WANT —25-20 or .32-20 Remington pump, excellent or very good, ammunition. R. E. Chitwood, Springerville, Arizona.

FOR SALE—REVOLVERS, MINERALS, STAMPS, coins, glass, Indian relics, catalog 5¢. Cow Boy Lemly, Las Cruces, New Mexico. tf.

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FOR SALE—WINCHESTER MODEL 70, 2R LOVell, new Remington 37 heavy barrel, scope blocks, 25 cases, 300 primers, 300 bullets, 75 loaded shells, very good, $145.00. 2R Hi-Wall, SS., new 37 barrel, blocks, Pacific dies, 60 cases, 200 bullets, 200 primers, very good, $85.00. Winchester Lo-Wall .22 L.R. heavy target, Octagon barrel, blocks, high comb stock, 500 cartridges, excellent, $60.00. 2R Ballard, 37 barrel, blocks, 60 loaded shells, high comb target stock, outside excellent, some small pits in bore, $60.00. W. A. Schwenk, 715 River Lane, Rockford, Illinois. Life Member.

FOR SALE—SPRINGFIELD SPORTER .30-'06, Lyman 48, refinished, newly checkered, sling, good bore,, very good, $70.00. Remington M29 Trap, 28" full ventilated, fancy stock, cowhide case, excellent, $115.00. Stevens .22-410 overunder, case, ammunition, perfect, $25.00. Ranger target .22 heavy, $33.00. Single 12-gauge, bore good, very good mechanically $13.00. Colt Woodsman, holster, perfect, $58.00. Lyman Jr. 8x, excellent, $62.00. French 8X glasses, good, $30.00. Selmer Saeter, Galesville, Wisconsin.

FOR SALE—TARGET RIFLE, HEAVY BARREL, British Martini action, Johnson barrel, A1 Freeland stock, Vaver rear, Redfield front sights, glove sling and arm piece, rifle rest, excellent to perfect, $165.00. Ray Paris, 1207 East Main Street, Richmond, Virginia.

FOR SALE—LARGE STOCK OF AMERICAN AND European Antique Arms. Send twenty-five cents in coin for our 12th edition catalog. We buy whole collections or single pieces. Fair prices paid. Kimball Arms Company, Woburn, Mass. tf

FOR SALE—LYMAN AND REDFIELD SIGHTS now in stock. Lyman 48, with disc, $11.50. Redfield 70 series, hunter knobs, $7.50. Redfield 102 series, $5.00. Lyman 57E for Winchester 75 Sporter, $6.00. Lyman 77 front, $4.50, 17-A, $2.75. In stock to fit all rifles. All prices include packing and postage. Robert Haelig, Boundbrook, N. J.

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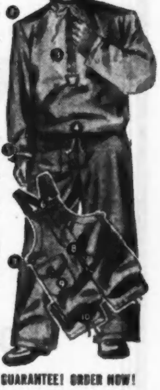

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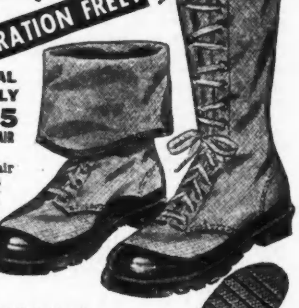

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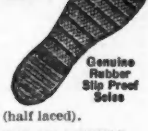

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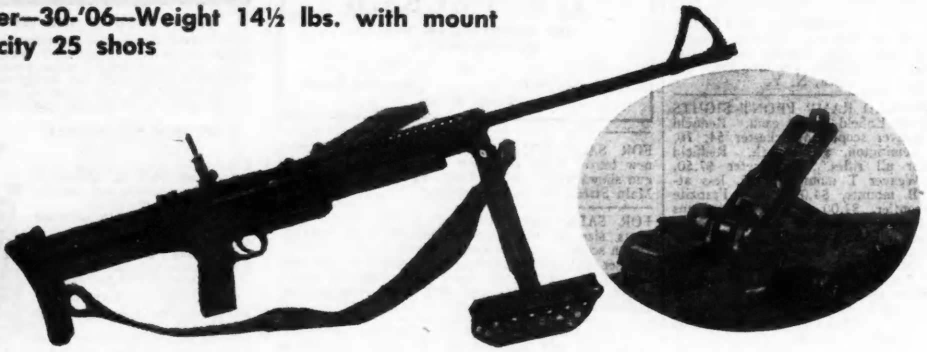
Capacity 25 shots



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See the article on high sights in the February Rifleman. The latest Johnson design puts the sights 2¾" above the center line of the bore.

FOR SALE—ZEISS DELTRENTIS 8 x 30, I.F., excellent, $140.00. Bausch & Lomb 8 x 30, excellent, $100.00. 6 x 30 Military Model, very good, $75.00. WANT—Model 70 Winchester .270 scope or iron sights, any high grade rifle in .270 or in other popular calibers. Prefer scope sighted; ALSO WANT—250 or .270 Magnum; Browning O&U; Winchester 21-12; Winchester 69-22; spotting scope; Pacific tool; Powder measure; Hensoldt; Zeiss; Lyman Alaskan or Weaver scopes, Electric radio. Curran Bashore, Mifflintown, Penna.

FOR SALE—FECKER 1⅛"—10X, ALSO HIGH power eyepiece, excellent, $65.00. B&L Prismatic NRA 19.5, 26 and 36X eyepieces, Freeland stand, excellent, $80.00. Remington 37, #01032, complete, stock slightly but well altered, custom built equipment; ground fork, adjustable elevation cheekrest, demountable spirit level, demountable sun shield for front sight, mechanically perfect, has fired 10X possible in outdoor NRA match (iron), has and will continue indefinitely to hold its own in any company, very slight superficial wear, generally new appearance, $90.00. If I were to continue competitive shooting, no money could buy it. Winchester 54, .30.'06 Target, HB, 17A and 48WJ, PG and beavertail all as issued, fired less than 200, as perfect as when I got it, with bandolier of ammo below, $100.00. Winchester 24 double 20, latest streamlined model less than 100 rounds fired, excellent, $40.00. Winchester 75 Sporter, complete, Lyman 57, perfect except for spot on top of receiver, 100 shells, $45.00. 1938 F.A., .30-'06 ammo., in bandoliers, very fine stuff, $5.00 each. Edwin Cole, R2, Box 57, Eagle, Wisconsin.

FOR SALE—A. H. FOX STERLINGWORTH 12 double, 30", good or better, $37.50. 45-70 Sharps Borchardt, barrel excellent in and out, receiver, stock slightly scratched, $30.00. Fine light 12 double, Howard Arms, (looks like Smith), very good to excellent, solid leather case, $37.50. John Crone, Route 1, Lebanon, Penna.

FOR SALE—357 COLT BISLEY, VERY GOOD, with quick draw Heiser holster and one box shells, $150.00. 41 Colt Bisley, good, $50.00. Several .45 Colt Automatics, good, $65.00 each. Several .45 Colt and S&W 1917 revolvers, $65.00 each. 380 Remington automatic, good, $30.00. 32 Colt automatic $30.00. 32 Mauser automatic $30.00. Ace Conversion Unit, Lugers, Mausers, Colts .38 Super automatic, revolvers, flintlocks, and percussion cap pistols. For free complete list write Elliott Gillespie, 4750 South Colfax Avenue, Minneapolis 9, Minnesota.

FOR SALE — 300 REMINGTON AUTOMATIC, sling, case, Weaver scope, excellent or better except wood scratches, 100 rounds, $175.00. 30-'06 Enfield, cheekrest, fancy checked and inlayed, Hawkins pad, buffalo tip, Weaver scope, 200 rounds, $125.00. Attic ventilation fans, choice of 16-20-24-30 inch exhaust assembly, $25.00, less motor. All perfect. WANTED—25, 32 automatics, one box to case 12-gauge tracers. F. M. Gookin, 7024 Denison, Houston 10, Texas.

FOR SALE—$15.00 GOVERNMENT NEW STEEL frame chair. Cushion seat. For pilot houses or other purpose. Seven positions. Height, forward, backward. Cost $50.00. Send for photo. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia 6, Penna.

ALAMO GUN COMPANY

Numerous inquiries have been received from NRA members regarding the Alamo Gun Company of San Antonio, Texas, since we discontinued publishing that firm's advertising, effective a year ago. Recently we received a letter from the Alamo Gun Company over the signature of Mr. Ad. Forkey, containing the following explanatory extracts:

"We are trying every way we know how to get caught up on work and orders but we are still badly snowed under. We cannot get the proper kind of help or enough barrel blanks, reamers, tools and other parts to keep up with the demand. Our shop is loaded to the limit for the balance of 1945. We are unable to accept any more work this year."

Members of the Association who have unfilled orders with the Alamo Company and who, in view of the situation as above explained, prefer a refund, should so advise Mr. Ad Forkey, addressing him in care of the Alamo Gun Company, P.O. Box 2567, San Antonio, Texas.

FOR SALE—REMINGTON 37, FINE CUSTOM stock, good to excellent, $90.00. Stevens 125-21 heavy barrel relined for .22 caliber by Surkamer, Redfield sights, $45.00; without sights, $30.00. C. H. Kline, Woolrich, Penna.

1873 WINCHESTER 22 LEVER ACTION REpeater, complete and unaltered working order, barrel poor, $25.00. H Aston U.S. Horse Pistol, good, $25.00. Another with poor stock, ramrod missing, $12.00. William Moore double muzzle-loading shotgun, good, 42-inch barrel, $15.00. Another 12-gauge ML single, very light with Golcher lock and Belgium barrel, $12.00. G. P. Foster Bristol, R. I., muzzle-loading rifle with set triggers and box lock, $20.00. Muzzle-loading shotguns with poor stocks but good locks and hardware, $5.00 each. Rough muzzle-loading rifles, $10.00 each. Ira J. Moody, McGregor, Iowa.

FOR SALE—ITHACA 12, #3-EJECTOR, 30" M&F, perfect in, almost excellent out, pad, $90.00. Chas. C. Adams, Longview, Texas.

FOR SALE—MAUSER .30-'06 CUSTOMBUILT full stock, 440 Weaver scope, 40 cartridges, very good, $125.00. Engraved T. Parker 10-gauge, custombuilt stock and forearm, good, some pits inside, $45.00. Smith & Wesson .44 Russian, factory refinished, very good, some roughness in bore, $65.00. Very good Woodsman with Heiser holster and 200 cartridges, $67.50. No telegrams. Wm. J. Seymour, Hinton, Iowa.

FOR SALE—MODEL 56 WINCHESTER, 29S Weaver, very good in, good out, 10 boxes L.R., $43.50. 45 Colt Army automatic, good out, fair in, holster, $40.00. 32-40 Ballard, D.S.T., good, barrel poor, $16.00. B. R. Anderson, Mazo Manie, Wisconsin.

FOR SALE—WEAVER SCOPES, 330, POST, crosshair, prepaid, $29.70; mounts "T" $2.20; "B" $6.60; Stith for Winchester 70, Savage 99 $12.00. Mounting Service. WANT—Remington Model 8, .32, .35 caliber. Huizenga Gunshop, Zeeland, Michigan.

FOR SALE—COLT AND OTHER CAP AND BALL revolvers in shooting order, send stamp for list. Kimball Arms Company, Woburn, Mass. tf

FOR SALE—COLT MODEL 1909, 45 D.A., 5" barrel, good, new flap holster and box cartridges, $35.00. Jim Craton's Sporting Goods, Davenport, Iowa.

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"When I get home to stay, we'll go down there every week with that gang of yours.
"Bet it won't take long for *you* to cop a prize or two."

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FOR SALE—WEBLEY .455 MARK III, GOOD, $30.00. Webley .44 Royal Irish constabulary revolver, nickel, very good, $25.00. Beautiful .30-'06 custom Mauser Sporter, excellent, $125.00. L. C. Smith 12-gauge Magnum, 32-inch full, ventilated, $150.00, excellent. 22 Winchester Low-Wall musket, fair to good, $25.00. Rare S&W 38, Baby Russian, good collector's condition, $25.00. Warren Baker, 5106 Liberty Avenue, Pittsburgh 24, Penna.

FOR SALE—220 SWIFT, WINCHESTER 70, EXcellent, fired 200 rounds, with sling, cheekpad and 12X Lyman Targetspot, also excellent, Elliott mounts, complete in plywood carrying case, 120 rounds Winchester and 140 custom loads, $270.00. Winchester 52 Target, MB, good with repaired stock, Lyman sights, scope mounts, sling, coat, 300 rounds L.R., $50.00. H. G. Obermeyer, 434 Longfellow, Westfield, New Jersey.

ARMS FOR COLLECTORS—SEND TWENTY-five cents in coin for our latest catalog on American and European Antique Arms. Antique arms purchased, fair prices paid. Kimball Arms Company, Woburn, Mass. tf

FOR SALE—25-35 $1.41; 30 REMINGTON, .30-30 and .32 Winchester Spec., $1.46; 22 L.R. 34¢ per box. For sale on certificate to farmers or ranchers only. Send stamp for additional list and certificate. Have quantity of above and small lots of others. Jim Craton's Sporting Goods, Davenport, Iowa.

FOR SALE—L. C. SMITH TRAP GRADE, 20x28, modified and full, Miller selective single trigger automatic ejectors, (Standard rib and fore-end), 100 fresh factory loaded shells (your choice as to load), excellent or better, $150.00. Robert Haelig, Boundbrook, N. J.

FOR SALE—OPTICALLY PERFECT, OTHERwise very good to excellent, Souther 8X scope, ¾" Lee Dot, Lyman 4-point click mounts, adjustable rib, $65.00. Perfect, Winchester Standard 70 stock, $15.00. Perfect, Ideal .250-3000 double adjustable chamber, muzzle resizer, and shell expanding chamber, $4.75. Perfect, Wilson Swift neck reamer, $4.50. Very good, Wesnitzer .210" primer pocket reamer, $1.50. Member A. C. Robertson, 3828 Calmont Avenue, Fort Worth 7, Texas.

FOR SALE—1¢ EACH. 75¢ PER 100. EMPTY 38 Special cartridge shells. Take small primers. We have plenty. Large quantity special price. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia 6, Penna.

FOR SALE—NEW LYMAN 48-S AND WJS, $10.50. Fly casting outfit new $20.00, Reed 1-inch and 2-inch micrometer in 1/10, $9.00 each. Jordan tool, dies .38 Special 2R, Hornet, $50.00. Few moulds, all guaranteed values. Stamp appreciated. M. Pecha, Acushnet Ave., Worcester, Mass.

FOR SALE—SAVAGE 12-GAUGE AUTOMATIC Skeet model, Cutts compensator, spreader, improved cylinder, modified, full choke tubes. Choice burl walnut stock, fitted Jostam recoil pad. Two fore-ends, large skeet type and field type. Complete action hand honed at factory. Also 26-inch improved cylinder barrel with ventilated rib. Excellent condition. First $127.00 money order. Lt. Edgar Hillyer, Boonville, New York.

FOR SALE—175 PRIMED LOVELL CASES 6¢ each. Fine old Peterson 8-power scope optically perfect, $30.00. Wollensak 4-power scope, click mounts, very good, $17.50. Excellent custom Enfield .30-'06 Sporter, scope blocks, no iron sights, beautifully stocked, $85.00. New Winchester Low-Wall K-Hornet, $75.00. WANTED—Gebby Varminter and 250-3000 resizing dies, shell holder, bullet seater, large primer arm for Pacific tool. Would buy Pacific tool also. V. Masters, 119 Pleasant St., Utica, N. Y.

FOR SALE—SAUER 12-GAUGE KRUPP BARrels, good, $75.00. Lee Enfield .303 Sporter, good, $35.00. Lebel 8mm Sporter, good, $35.00. British-Krag .303 Sporter, very good, $50.00. Winchester-Enfield Sporter, very good, $75.00. WANT—22 rifle, revolver, also 16-gauge shotgun. Andrew Kenney, 7913 Inglenook, Pittsburgh 21, Penna.

FOR SALE—WEAVER SCOPES IN STOCK, 330-S, crosshair or post, without mounts, $29.70. 440-S, crosshair or post, without mounts, $35.20. Weaver "T" mounts, $2.20, Weaver "B" mounts, $6.60 per pair. Stith Install-it-Yorself, for Winchester 70 or Savage 99, only, $12.00. Redfield Junior, for all rifles, $9.50. All prices include packing and postage. Robert Haelig, Boundbrook, N. J.

FOR SALE—45-70 SPRINGFIELD SPORTER stock, 300 and 500-grain bullet moulds. Pacific dies, sizer, 57 cartridges, gun good, tools excellent, $30.00. 7.65 Luger, very good with 28 cartridges, $50.00. Paul Johnson, 1409 Coolidge, San Mateo, California.

FOR SALE—38-40 DIES COMPLETE TO FIT the Schmitt tool. Bullet mold plus Ideal lube and sizer die. Excellent, $24.50. George Shaeffer, Milford, Delaware.

$1.50 SPRINGFIELD .30-'06 RIFLE BARRELS. Second hand. Limited supply. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia 6, Penna.

FOR SALE—COLT SHOOTING MASTER 38, KING sights, 6" barrel, like new, perfect, $80.00. New Service Target caliber .45 Colt, 6" barrel, honed action rounded butt, never fired, perfect, $75.00. Colt Bankers Special .22, perfect, $45.00. W. D. Freeston, Box 62, Bernardsville, N. J.

FOR SALE—FECKER 4X SMALL GAME SCOPE, 18-inch, web crosshairs, plain micrometer mounts, excellent, $40.00. DuMaurier 10X monocular, perfect, with case, $18.00. WANT—Good .303 British Enfield, and 7mm Mauser. W. A. Brown, 405 W. Locust St., Rome, N. Y.

FOR SALE—WALNUT HILL .22, LYMAN 17A, 48L, Wilder sling, very good, $70.00. Winchester #8, 8X scope complete with blocks and mounts, $20.00. Colt Frontier .44-40, fair, $20.00. Leica camera with Elmor 135mm telephoto, $110.00. A. R. Ronzio, 808 E. Pacific, Appleton, Wisconsin.

FOR SALE—ARMY SPRINGFIELD .30 CALIBER, barrel poor, action o.k. #200937, sell $12.50. Ray Paris, 1207 East Main Street, Richmond, Virginia.

FOR SALE—ITHACA 12-GAUGE DOUBLE HAMmerless 30" F&F, with modern steel barrels, good, $50.00. Colt .38 Police Positive Special 5" blue, good with 50 cartridges, $35.00. Stevens .410 gauge single, bolt-action with 40-3" cartridges, good, $19.00. 100 F.A. 38, .30-'06 ammunition, $8.00. Sunbeam Shavemaster, rotary type, good, $11.00. WANT—Ammunition, .303 British S.P. 40-82 S.P. and 50-95 lead. Fred Kranz, Sauk Centre, Minnesota.

FOR SALE—WINCHESTER MODEL 94, .30-30 carbine. Perfect, $60.00. Includes box cartridge. E. P. Kreimendahl, Box 53, Celina, Ohio.

OUR LIST OF MODERN ARMS WILL BE SENT on receipt of 3¢ stamp. Kimball Arms Company, Woburn, Mass. tf

FOR SALE—38 COLT OFFICIAL POLICE 6" very good, with King full ventilated rib, ⅛" undercut front, ⅛" rear King short action, R. H. cockeyed hammer, Roper grips, sheeplined holster, $75.00. 38 Special Officers Model 7½" barrel, bead and Patridge front and rear sights. Pachmyer adaptor, good out, excellent in, $55.00. U.S.R.A. .22, 7" barrel, 1/10" and ⅛" sights H&R, leather covered case, #2, #4, #5 extra grips, Hammer & trigger honed to 6 ounces, very good out, excellent in, $45.00. Phil. Lever, 27 East King St., York, Penna.

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Existing conditions prevent us doing any gunsmithing except sight and scope mounting. We have some sights and scopes in stock. Watch this ad for further announcement.

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Textbook of Firearms Identification, Hatcher	7.50
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Weaver 330S, T mount, cross wire or post	$31.90
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Taps, scope blocks, lens covers available.
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Copper Jackets only, 42, 50, 55, 60 grain; 42, 50 grain Round or Sharp Point, $2.25 per hundred, postpaid; 65 grain 227, $2.50. Sample Free.
MILO HILL Caledonia, Ohio

SHEEPSKIN CASES, BEST GRADE $5.50 UP. Duralium shotgun cleaning rods, all gauges, $1.00. ⅞-1" Military slings, russet live leather, $1.50. List free. Flaig's, Millvale, Penna.

FOR SALE—COLT CONVERSION UNIT, FLOATING chamber, perfect, $75.00. Smith & Wesson K22, latest model (not Masterpiece), perfect, 500 fresh long rifle cartridges, $85.00. Colt Detective Special, Fitzgerald Model, 50 cartridges, excellent, $65.00. Permit must accompany order where required. Robert Haelig, Boundbrook, N. J.

$2.50 NEW WALNUT FULL LENGTH RIFLE Stock Blank. 42 inches long. Special price in quantity. Weil's Curiosity Shop, 18 Strawberry St., Philadelphia 6, Penna.

FOR SALE—22 COLT WOODSMAN, 6½" BARrel, excellent, holster, 500 cartridges, $60.00. 22 H&R Premier, 3" barrel, blue, excellent, $15.00. R. T. Grabe, Coudersport, Penna.

FOR SALE—MODEL 70-25 P.M.V.F. MAGNUM Medium-Custom barrel, beautiful custom stock, drilled for Tilden mounts, with cases, bullets and dies, $250.00. Must be seen to be appreciated. WANTED—High grade double. Dr. Louis P. Bairo, 711 Professional Bldg., Phoenix, Arizona.

FOR SALE—351 WINCHESTER '07 SELF loader, excellent in, very good to excellent out, $80.00. 30 Government '03 Winchester '95, saddle boot and sling, very good to excellent in, good to very good out, $60.00. B. P. Hamelin, 206 Maryland St., Westfield, New Jersey.

FOR SALE—EXCELLENT LATE 52, REDFIELDS and Lyman 438, $100.00. Beautiful 54 Hornet, Zeiss scope in Redfield mount, 200 rounds, $150.00. Altered bolt, safety, very good. Ott Bruhn, 2108 Folsom St., San Francisco 10, California.

FOR SALE—EXCELLENT BROWNING PIGEON Grade Lightning O/U, 28 FM, case, $225.00. Perfect Colt Officers' Target .22, 2 holsters, ammunition, $70.00. Excellent 52 Sporter 48 Lyman 29S Weaver B mounts, altered bolt, sling, case, cartridges, $135.00. Prewar custommade sole leather case W70, $20.00. Duluth pack $7.50. Other items. Complete descriptions on request. WANT—W70 .30-'06, high grade 20 double favor W21. E. D. Adams, 6310 Clayton Rd., St. Louis 17, Missouri.

LUGER 9MM, 6-INCH BARREL, D.W.M. ADjustable rear sight and grip safety, excellent in and out, $100.00. Luger 9mm, 4-inch barrel, D.W.M. barrel very slightly pitted in, excellent out, $80.00. Luger 9mm, 7½-inch barrel, elevating sight missing, D.W.M. 1915 excellent in, very good out, $90.00. Mauser (Oberndorf) 9mm 5½-inch barrel, excellent plus in and out, $100.00. Mauser (Oberndorf) 9 mm. 5½-inch barrel, excellent plus in and out, $100. Mauser (Obendorf) 5½" barrel, excellent plus in and out, $100.00. Borchardt (Lowe, Berlin) 7.65mm 7½-inch barrel, magazine missing, excellent in and out, $75.00. Steyr Model 1912-9mm, excellent in and out, $50.00. Dreyse 9mm, excellent in and out, $40.00. Dreyse 7.65 mm. fair in, excellent out, $25.00. Roth about .30 caliber J.P. Sauer and Sohn, Suhl, very good in and out, $25.00. Bestigui Hermanos 7.65mm. very good in. blueing worn out, $12.00. Simplex about .30 caliber, magazine missing, very good in and out, $15.00. Jager 7.65mm, magazine missing, very good in and out, $15.00. Schwarzlose about .30 caliber, magazine missing and one side of stock missing, very good in and out, $15.00. F. L. Selbstader 7.65mm, magazine missing, safety lever broken, very good in and out, $15.00. Frommer 7.65mm, magazine missing, fair in, very good out, $15.00. Clement (Belgium) about 6mm, magazine missing, fair in, excellent out, $15.00. Knickerbocker 12-gauge shotgun, usable condition, $15.00. Vincent Conigliaro, Metropolitan Firearms Company, 155 Canal St., New York 13, N. Y.

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FOR SALE—WINCHESTER RIFLE MODEL 52 and Lyman No. 5 telescope, 22 caliber, very good, wood case, $125.00. Mrs. P. H. Burk, Marysville, Kansas.

FOR SALE—L. C. SMITH DOUBLE TRAP grade 32" ventilated rib, Miller single trigger, nearly new, $175.00, also set of Army field phones, suitable for talking one building to another, $30.00. D. W. Thomas, Vineland, N. J.

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FOR SALE—WINCHESTER 70, 220 SWIFT Super grade, Lyman 48 rear, post front, sling and detachable swivels, excellent to perfect, 640 factory shells, $197.00. Herman Jurist, 182 Bay Avenue, Toms River, N. J.

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FOR SALE — BRAND NEW WINCHESTER 12-12-30" trap, ventilated, imp. mod. $185.00, Hi-Standard 6¾" barrel, heavy, excellent, holster, 500 rounds, $50.00. Bert Orne, Ortonville, Minnesota.

FOR SALE—WINCHESTER 52 STANDARD ADJ. folding leaf rear, good, $55.00. C. J. Eisenhower, 2037 Penn. Ave., West Lawn, Penna.

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FOR SALE—SAVAGE 19 NRA WEAVER 330S, B mounts, extra Fecker bases, canvas case, Sportsman 999, holster, all near excellent, 1900 rounds various ammunition, no splits, no wires, $130.00, details for stamp. W. E. Lincoln, Box 272, Buzzards Bay, Mass.

WARNING

We have been advised by Mr. Tom Sharpe of San Antonio that during the period of April 15, 1944 to January 1, 1945, he employed a gunsmith, formerly employed at San Antonio Arsenal—M. M. Weakley—whose workmanship proved unsatisfactory, particularly as to rechambering and rebarreling of high-power rifles. We have received several sample cases fired in rifles "worked over" by this gunsmith, which cases evidence very poor workmanship in chambering and headspacing.

Mr. Sharpe advises us that he will buy back every gun that left his shop in unsafe condition. Members concerned should have their gun thoroughly checked for proper chambering, headspacing and fitting of the barrel to the receiver by some competent gunsmith. Then, if found unsatisfactory, Mr. Sharpe should be advised and shipping instructions requested. His address is: 220 Cincinnati, San Antonio, Texas.

FOR SALE—EXCELLENT SUKALLE JOB, 7MM. Mauser, shot 50 times, .22" barrel, set triggers, Noske four power scope Redfield rear, ramp front, beautiful Circassian Mannlicher stock, 70 cartridges, $300.00. Leon Fisher, Presidio, Texas.

FOR SALE—G&H CUSTOM 7MM. SPRINGfield, Circassian walnut stock Poldi Anticoro steel barrel, 330 Weaver, bridge mounts, 40 loads, excellent $250.00. L. C. Smith 12 ga. trap grade $125.00. M. G. Pratt, 1133 East Portland, Phoenix, Arizona.

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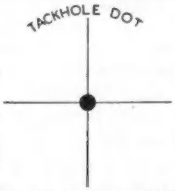

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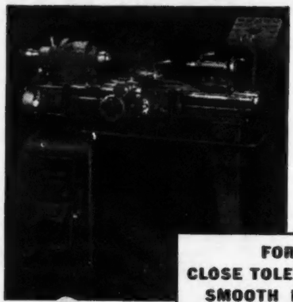

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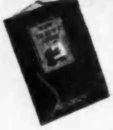

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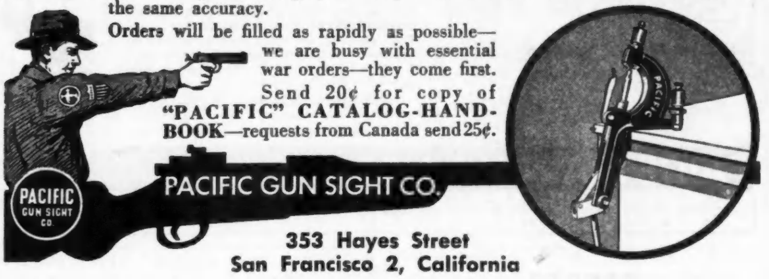
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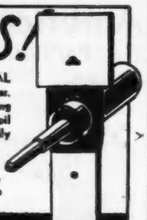

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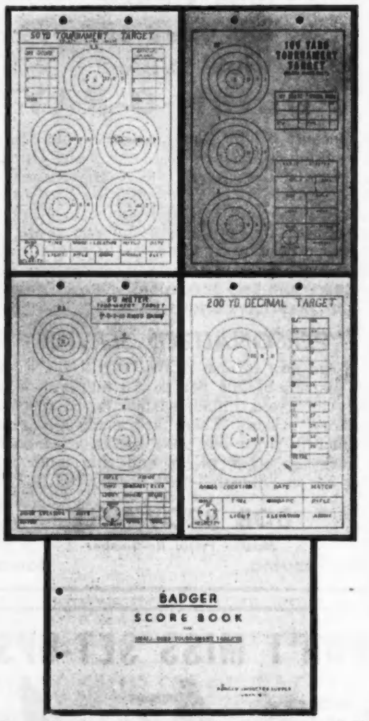

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WANTED — FINE SINGLE SHOT TARGET rifles, Winchester, Ballard, Stevens and others. Also stocks, barrels, loading tools, moulds and other accessories. T. J. Cooper, R7, Meadville, Penna. 4-45

WANTED—DEER RIFLE WITH CARTRIDGES. Willing to pay $15.00 to $25.00 according to condition. Charles F. White, 451 Starkweather Avenue. Plymouth, Michigan. 4-45

WANTED — WOULD APPRECIATE REASONable amount fresh .22 L.R. ammunition for personal use. J. E. Overholtz, P. O. Clerk, Lima, Ohio.

WANTED — 63 WINCHESTER .22, PERFECT. 4½" or 6½" Colt Woodsman, perfect. Back issues AMERICAN RIFLEMAN. SELL OR TRADE—121 Remington Fieldmaster .22, new, with beautiful walnut stock. Three excellent table model radios, $29.50 and $65.50. Member, C. D. Madden, Clarksville, Ohio.

WANTED—NEWTON RIFLE .30 OR .35 PREferred, NMNC primers for large rifle. Give serial condition and price. Member. Chester Hilton, St. Ignatius, Montana.

WANTED—CASH FOR VERY GOOD TO EXcellent .257 rifle, 20X Mossberg spotting scope and stand, 29S with post. Write details. John W. Miller, 7050 Belclare Road, Baltimore 22, Maryland.

WANTED—16 OR 20-GAUGE LIGHTWEIGHT field gun, prefer Parker, excellent condition, write full description. J. W. Bowen, Essex Fells, New Jersey.

WANTED—PORTABLE TYPEWRITER STANDard keyboard. Write—give serial number, make, price. Must be sent C.O.D. Leonard Pritchett, Box 24, Olive View, California.

WANTED—COLT .38 OFFICERS' MODEL TARget or Shootingmaster. Also Colt Match Target Woodsman. Must be very good to excellent. H. W. Wittman, 20 E. Jefferson St., Phoenix, Arizona. Member.

WANTED—200 NEW .25-20 SS CASES, OR .22-3000 empties. R. B. Sisk, Iowa Park, Texas.

WANTED—GOOD MAUSER, SPRINGFIELD OR 54 action, also excellent 7mm barrel for Mauser. R. A. Phillips, Route 2, Box 501, Phoenix, Arizona.

WANTED—WINCHESTER, MODEL 12, PUMP gun, 12-gauge, 30 or 32" barrel, full choke, matted ventilated rib, recoil pad optional, must be very good to excellent. C. D. Perry, 515 Beaumont Avenue, Charlotte, N. C.

WANTED—WINCHESTER 52 SPORTER AND 75 Target. Excellent or better. Hillary Perry, 1208 Midway Court, Marion, Illinois.

WANTED—375 H&H MAGNUM CASES. STATE condition and price. Jas. E. Pugh, 722 Woodrow Avenue, Oildale, California.

WANTED—MODEL 12, 12-GAUGE RIOT GUN, Model 70, .257, both must be perfect. C. C. Powell, 2041 McGilvra Blvd., Seattle, Washington.

WANTED—38-40 CYLINDER AND 4¾" BARrel for Bisley Model Colt, excellent condition. Write Jack Maxwell, P. O. Box 438 North Hollywood, California.

WANTED—257 ROBERTS 87-GRAIN AMMUNItion. Sell—100, 117. M. J. Lowen, 930 Central Avenue, Yonkers, N. Y.

WANTED—WILL PAY $100.00 FOR WINCHESter Model 70, caliber 22 Hornet, describe condition. $100.00 for best Browning Over and Under. Trade any 12, 16 or 20-gauge shells for 16-gauge 2¾" shot 6 or 7. WANT—Browning automatic 12-gauge, good or better. Waldo Johnson, Route 3, Adrian, Michigan.

WANTED—REMINGTON .22 PUMP MODEL 12 or 121 Fieldmaster, Outside condition not important but inside must be good and priced reasonable. E. Ham, Madera, California.

WANTED—30 NEWTON CARTRIDGES OR NEW cases. Bullets only in 32 WS or Remington soft or hollow point, 256 Newton and old 150-grain service bullets. Leo Heimburger, Oroville, California.

WANTED—RIFLEMAN 1933, 1938 TO 1942. Eighteen old to trade. Write. Basil Holmes, Payette, Idaho.

WANTED—WINCHESTER 92, .44-40 CARBINE, or Marlin same. Perfect. 44-40 H.V. ammunition, also .30-30, 170-grain soft nose. Want—Savage Utility combination rifle, .30-30, 20-gauge. Also Savage Overunder 20-gauge shotgun. J. D. Conklin, State Theatre, Radford, Virginia.

WANTED—HENSOLDT DIALYTAN 4X, ZIESS Zielvier 4X, Luxor-Hell 4X or Ajack 4X. If mounted, might consider rifle. M. E. Hutton, 222 South Mariposa Avenue, Los Angeles, California.

WANTED TO BUY—22 TARGET RIFLES, ANY make in good condition. Filer Rifle and Pistol Club, Filer, Idaho.

WANTED—44 S&W RUSSIAN CYLINDER AND extractor mechanism, Model 1870. OR WANT fair gun for parts. Privilege of examination. C. Eaton, 149E 107st., Chicago 28, Illinois.

WANTED—IDEAL GAS CHECK BULLET MOLD No. 350447 for 348 Winchester. Ernest Cole, 414 Postal Building, Portland, Oregon.

WANTED—WADS AND PRIMED CASES IN 10 and 12-gauge. Also 10-gauge shell. Receiver for Ideal loading machine. Ben Anderson, New England, North Dakota.

WANTED—MAUSER, ENFIELD AND OTHER complete actions, or complete rifles. Winchester Single Shot and other actions for parts. WANT—One Model 63 Winchester .22 Automatic for cash or trade. P. O. Ackley, Box 158, Cimarron, New Mexico.

WANTED—HIGH GRADE DOUBLE SHOTGUN, automatic, ejectors, single trigger, cash payment. E. W. Billings, Hinton, West Virginia.

WANTED — 16-GAUGE SHOTGUN, AS NEW. Parker or other high grade, improved cylinder and modified, or skeet boring. Give stock dimensions. Have .375 Winchester 70 if interested. Mel Leitch, 130 Linden Avenue, Glen Ridge, New Jersey.

WANTED—250-3000 AND 300 SAVAGE CARtridges and 12-gauge Magnum shells. I will pay all charges. Member. Henry Hinkel, 433 Marshall, Bellwood, Illinois.

WANTED—GOOD USED OUTBOARD MOTOR. Two-four horsepower. State price. Anton Olson, Columbus, North Dakota.

WANTED—PRESENTATION ENGRAVED COLT and Smith and Wesson revolvers. Frontier, Colts and Russian Model S&W preferred in excellent condition. M. C. Clark, 169 No. La Peer Drive, Beverly Hills, California. 5-45

WANTED — 250-3000 AND 6.5MM SPORTING ammunition. Also excellent Krag action. A. J. Backes, Langdon, North Dakota.

WANTED—WINCHESTER MODEL 71 348 CALiber, excellent. Ralph Dittmann, 427 Bender Road, Milwaukee 9, Wisconsin.

WANTED—MODEL 70 WINCHESTER ANY CALiber, condition poor. Witt, 171 College, Holland, Michigan.

WANTED — 45-70 CARTRIDGES. PREFER black powder. Any amount. Member. W. A. Brewer, Box 675, S.M.A., Staunton, Virginia.

WANTED—ONE OR TWO BOXES .40-65, .38-55, 32 Long Colt or 32 Long rim fire cartridges. Will pay cash or exchange 12-gauge shells for same. Wilbur Bliss, Ingalls, Michigan.

WANTED—COLT ACE, EXCELLENT OR BETter. Dr. R. J. Broussard, New Iberia, La. Life Member.

WANTED—ROSS RIFLE COMPANY CATALOG covering M10 rifle, issued shortly before last War. State price and condition. Capt. H. N. Busick, Hotel Dennis, Atlantic City, New Jersey.

WILL PAY REASONABLE PRICE FOR MODEL 17 Enfield actions complete, excellent or better condition. Elwin Herington, 710 North Third Street, East Grand Forks, Minnesota.

WANTED—.257 ROBERTS, EXCELLENT CONdition, in either a Model 70 Winchester or 720 Remington, and ammunition for same. 4½ inch Colt Woodsman, high speed, excellent condition. N.R.A., Bausch & Lomb Prismatic spotting scope, 19.5 eyepiece, stand. Set of golf clubs, right hand, excellent condition, especially WANT Driver, Putter, No. 5 and No. 8 irons. Send all details, including price. Wm. G. Baucom, Box 969, Porterville, California.

WANTED — EDWARD VOM HOFE FISHING Reels and Rods, especially smaller sizes including Fly Rod Reels. J. L. Fricks, Albertville, Alabama.

WANTED — BROWNING SWEET SIXTEEN, ventilated rib, excellent condition. M. E. Hutton, 222 South Mariposa Avenue, Los Angeles, California.

WANTED—S&W KIT GUN, 4½" WOODSMAN, excellent to perfect. 1st Lieut. J. W. Childs, USMCR, A&R Dep't, USMCAS, Quantico, Virginia.

WANTED—RARE PISTOL COLLECTIONS. CASH. Describe, price. Life Member. Miller Bedford, New London, Ohio. 3-46

WANTED—SAVAGE HORNET 23D. EXCELLENT to perfect. 3 boxes factory ammunition. Harry D. Whitcomb, Bath, New Hampshire.

WANTED—TO BUY 5000—173-GRAIN BOATTAIL bullets at reasonable price for State Guard training purposes. Jack Roach, Texas State Guard, Kilgore, Texas.

WANTED — WINCHESTER MODEL 70, .257 Roberts. Very good condition or better. Robert Shown, Monte Vista, Colorado.

WANTED — MAUSER 98. STEVENS 44½ actions. Mauser 98 set triggers. Ralph D. Baxter, Bluemont, Virginia.

WANTED — FISHING OUTFIT, ESPECIALLY fly rod and reel and casting rod and reel. Full particulars first letter. R. L. Holmes, 3118 Victory Court, Seneca, Illinois.

WANTED—ANY JACKETED BULLETS IN THE following calibers: .30, .270, .22 Swift and .375 H&H Magnum. 357 Magnum cases, No. 9½ or 120 primers. Winchester Model 71 caliber .348, at ceiling prices. Adrian R. Birchard, Shoreham, Vermont.

WANTED—SPRINGFIELD $40.00. FRONTIER $20.00. Quality double. Antiques. Felix Phillips, 1508 Clover, Amarillo, Texas.

WANTED—38 COLT OFFICERS' MODEL HB, pay $60.00-perfect. Pay $4.00 #1½ primers. FOR SALE—.32 Colt Automatic, nickel, pearl handles, perfect, $45.00. J. D. Felder, 615 Hancock St., Corpus Christi, Texas.

WANTED — 10-GAUGE MAGNUM SHOTGUN with full choke barrels. Prefer automatic ejectors. Must be in very good condition or better. At least 10 boxes of shells must go with gun. Please give full information and price. J. A. Hedgecoke, Box 2489, Amarillo, Texas.

WANTED — SHOTGUN, 20 OR 28-GAUGE double, preferably Parker D.H.E. grade or better. Consider other quality makes. Ned Kailing, 8026 N. Division Road, Milwaukee, Wisconsin. 6-45

WANTED--PERFECT S&W SAFETY HAMMERLESS, blue, 2-inch barrel, ivory grips for S&W .357, Benjamin Super air rifle, also pistol, 4-gauge and 24-gauge shotgun shells. W. F. Pile, Scott City, Kansas.

WANTED—HIGH GRADE J.A. COXE AND EDward Vom Hofe fishing reels up to 6/0. J. L. Fricks, Albertville, Alabama.

WANTED—.32-20 S&W OR COLT LONG BARREL. Also ammunition for .32-20 and 8mm Mauser. Write and describe. C. E. Wasson, Riorton, Wyoming.

WANTED—28" BARREL .30-40 CALIBER FOR M95 Winchester, new or excellent. Also 405 Winchester M95 rifle, excellent condition. Write—E. E. Braley, Sitka, Alaska.

WANTED—NO. 5 IDEAL POWDER MEASURE, excellent condition, will pay up to $12.00. Bullet molds for 9mm Luger and .38 caliber pistol, round nose, 130-grain, 150-grain, 160-grain. Sizing dies to fit No. 1 Ideal tool, 9mm Luger. Large and small NMNC pistol primers. Kendall Clark, 419 Volusia Avenue, Dayton 9, Ohio.

WANTED—COLT MATCH WOODSMAN WINchester 63 automatic, 70 Hornet, excellent. Lt. William Franklin, 4316 4th St., North Arlington, Virginia.

WANTED—TWO—12-GAUGE REMINGTON AUtomatics, 5-shot, 26" or 28" solid rib, full choke. Excellent to very good. W. T. Olsen, 412 West 4th St., Grand Island, Nebraska.

WANTED—SAVAGE .300 MODEL 99B OR R.S. for personal use. W. J. Costello, P. O. Box 1209, Charlotte, North Carolina.

WANTED—BY LIFE MEMBER EXCELLENT to perfect M70, .220 Swift Target Grade, M-70, .270 Super or Standard. G. N. Sery, Kenosha, Wisconsin.

WANTED—12, 16-GAUGE SHELLS SHOT ONCE, 22 ammunition, shell vest for 20-gauge size 38 or 40. Louis Renzi, Burlington, New Jersey.

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WANTED — URGENTLY NEED COLT .22-.45 Service Model Conversion Unit with floating chamber. Major Lee H. Barton, 183rd Station Hospital, APO 942, % PM, Seattle, Washington.

WANTED—MILITARY OR SPORTING RIFLES any condition. Also actions. H. E. Preece, 421 Quinn Court, Needles, California.

WANTED—SWIFT FACTORY LOADS. WILL trade factory Hornets, .30-'06 and .45 Government, or 20-gauge Skeet loads. Also cash. Charles B. Darwin, Cookeville, Tennessee. Life Member.

WANTED—75S—513S-54 HORNET. EXCELLENT to perfect condition. State price in first letter. F. S. Rogers, 56D Elizabeth Rd., Hampton, Virginia.

WANTED—31 REMINGTON MOD. OR IMP. cyl., 12-16 gauge. Winchester 70, .270. Both excellent. Ammunition. F. O. Blake, 4 Amsbry St., Binghamton, New York.

WANTED—WINCHESTER 52 SPORTER, VERY good or better. Request examination. All letters answered. Alfred Bezy, R. 2, New Albany, Indiana.

WILL PAY $100.00 FOR 6.5MM BAUSCH & LOMB spotting scope. Also WANT small metal turning lathe. Oren Jensen, Kennydale, Washington.

WANTED — WESTON MASTER EXPOSURE meter in perfect condition. Melvin L. Wolfe, R.R. #2, Arcanum, Ohio. Member.

WANTED—70 MAGNUM, 70 TARGET, .30 OR .35 caliber, Newton cases. 35 caliber jacketed bullets. One Magnum Super 10; one B&M Visible Powder Measure. James H. King, R1, Macungie, Penna.

WANTED—AIR MATTRESS AND BAIT CASTing outfit by officer going overseas. Lt. A. J. Smith, 1864th EAB, Drew Field, Florida.

WANTED—ANTIQUE ARMS COLLECTIONS OR single pieces purchased at fair prices. Give full description. Kimball Arms Co., Woburn, Mass. tf

WANTED—PISTOLS, RIFLES AND SHOTGUNS, will pay the ceiling price, describe fully or send gun express collect, will send you check or return gun express collect immediately. Jim Craton's Sporting Goods, Davenport, Iowa.

WANTED—EXCELLENT .257 MODEL 70 WITH or without scope, .257 Pacific dies, bullets and primers. 8x or 10x binoculars, send details first letter. Alvey N. Stotelmyer, 418 No. Prospect Street, Hagerstown, Maryland.

WANTED—.257 OR .270 WINCHESTER 70, PERfect or excellent Pacific dies, cases, bullets, primers, gas checks or moulds. F. A. Giesel, 144 Brook St., Wollaston, Mass.

WANTED—MAUSER 98 ISSUE RIFLES, COMplete or otherwise, 30-06, 30-40 and .45 C.A.M.C. ammunition. State condition, price. Flaigs, Millvale, Penna.

WANTED—RIBBED OR SEMI-RIBBED 30-06, .270 barrels, engraved p.g. caps, model 70 actions. T. J. Harman, 212 Front St., York, Penna.

WANTED—SAVAGE MODEL 20 BOLT ACTION, caliber 250-3000 or .300 Savage, Remington Navy single shot pistol, small or large lots Springfield, Enfield, Krag and Mauser parts, frames for Colt .45 auto. E. S. Burrell, 717 Wyndmoor, Phila. 18, Penna.

WANTED—OVER AND UNDER 20 GAUGE A&R or imported lightweight field gun in perfect condition, examination privilege, write full description. F. Dwight Foster, Conover Lane, Red Bank, N. J.

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New Magazines for .380 Colt Auto	1.25
New Magazines for 38 Super Auto. Colt	1.95
New Magazines Colt Ace .22 caliber	2.75
New Magazines Model "B" Hi Standard	1.75
Imported Magazines to fit .25 Colt Auto	2.25
New Barrels, Colt Single Action; .38 W.C.F. or .44 W.C.F. 5½" or 7½" blue.. Also .32/20 W.C.F. 4¾" only	4.95
.41 cal. Italian Vetterli center fire cartridges, each	.08
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Factory loaded .30/40 Krag Blanks, each	.10
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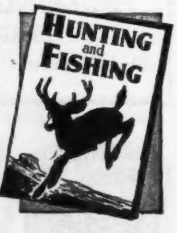

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WANTED—NEWTON OR SAVAGE MODEL 20 rifle or action, caliber immaterial. Roy E. Weatherby, 7672 California Ave., Huntington Park, Calif.

WANTED—.270 CALIBER RIFLE, PERFECT, for cash, or will trade brand new (unfired) Winchester 70, 30-06, also want Browning 12 gauge over & under. S. de Ranitz, Prairie du Chien, Wisconsin.

WANTED—500 OR 1000 FRESH RIFLE PRIMERS for .22 Hornet, name price. L. T. Bergstrom, Watseka, Ill.

WANTED—.45 COLT AUTOMATIC, .38 SPECIAL Colt or S&W, .357 Magnum. T. J. Higgins, Pleasantville, New York.

WANTED — 30-06 SPRINGFIELD, ENFIELD, also foreign military rifles, bayonets. Robert Abels, 860 Lexington Avenue, New York 21, New York. 1-46

WANTED—OBSOLETE AND ANTIQUE FIREarms in working condition single items or entire collection. H. A. Brand, 1008 Ingalls Building, Cincinnati 2, Ohio. 5-45

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WILL PAY $20.00 EACH FOR FOLLOWING—Mauser 98, Springfield, Enfield actions, 5A or A5 and Winchester 8X scopes. Paul Ratliff, Hillyard, Washington. 4-45

WANTED—WINCHESTER 52 HB SPEEDLOCK, excellent or better, late issue F.A. 30-06 ammunition. Blythe Richards, 249 W. 12th St., Tracy, California.

WANTED—WILL BUY M1 AND M2 BULLETS 2½ to 4¢ each. 8½ or 9½ primers, $1.25 per hundred. M1 and M2 ammunition have 52 F extension rear sight to trade, write first. C. McGuckin, 627 13th St., Huntington Beach, California.

WANTED—FAIRBANKS SCALES OR EQUIVAlent, Star sizer and lubricator 358, Walts Radio Shop, Lynwood, California.

WANTED—FINE LONG RANGE CREEDMOOR target rifles, superb outfit with full accessories and in gun crank condition, especially want fine Sharps Creedmoor outfits used in tournaments of the 1870's & prefer engraved cased models, also want fine Sharps 16 lb. Buffalo guns and Sharps moulds & paper patched ammunition. Write complete description & cash price to M. C. Clark, 169 North La Peer Drive, Beverly Hills, California.

WANTED—REMINGTON MODEL 720 RIFLE 270 Winchester caliber, excellent to perfect, do not want scope or receiver sight, all letters answered. Frank M. Harper, 1212 Loraine St., N.S. Pittsburgh, Penna.

WANTED—M70 OR M720 CALIBER .257, VERY good or better, with ammunition. A. M. Ungerecht, Detroit Lakes, Minnesota.

WANTED — TEN GAUGE ITHACA MAGNUM with plenty of Magnum shells, also large rifle primers, non-mercuric and non-corrosive, please give detailed description and prices, all correspondence answered. J. M. Lawson, 650 Fifth Avenue, Ft. Worth, Texas.

WANTED—ITHACA 37S, EITHER 12 OR 16 gauge, 28 inch full or modified, very good or better, give complete description and price in first letter, member. L. L. Williamson, 5853 North Kirby Avenue, Chicago, Illinois.

WANTED—75 EXCELLENT TO PERFECT WITH iron sights, examination privilege. W. W. Kendall, 807 Dresden, Louisville, Kentucky.

WANTED — 250-3000 EMPTY CASES, ALSO primers Winchester 115, 120, Remington 8½, 9½. Leo Reed, 3212 Brookside Parkway, Indianapolis, Indiana.

WANTED—06, 270, 7MM, OR 257 WINCHESTER or Remington, 24 barrel excellent or better, also 22 hp outboard motor, Johnson, Evinrude, or Elto, trolling motor 3 to 5 hp, give all particulars, no holdup prices, give serial #. C. R. Linger, Idaho Falls, Idaho.

WANTED—GUNS, ANY KIND OR QUANTITY. modern or antique, one gun or collections, describe and put your price on them, cash in full paid. H. W. Cleveland, Box 828, Crestline, California. 9-45

WANTED—GOOD HI-POWER RIFLE AND .22 rifle, also shotgun, describe fully. G. C. Pierce, Member, 116 Main St., Oneida, New York.

WANTED—LATE MODEL PARKER 10 GAUGE ejector, good or better. C. M. Hughes, Box 207, Greenville, Mississippi.

WANTED — BROKEN AND DAMAGED WINchester rifles and shotguns, all models, describe and price. Louis Rinquette, Grants Pass, Oregon. 5-45

WANTED—.44-45 FRONTIER COLTS OR REMington. Robert Abels, 860 Lexington Ave., New York 21, N. Y. 1-46

WANTED—GOOD 250-3000 CASES. W. G. NEWton, 110 E. 4th Avenue, Pine Bluff, Arkansas.

WANTED—EXCELLENT 25-35 CALIBER, 26" octagon barrel for 94 Winchester. H. C. Lawson, Cleburne, Tex.

WANTED—PLEASE SELL ME A CYLINDER for .44 Special S.A. Colt. K. P. Karnopp, Prairie View, Ill.

WANTED—LUXOR-HELL OR AJAK OR EQUAL. Roy E. Weatherby, 7672 California Avenue, Huntington Park, California.

WANTED—HI-POWER EYEPIECE FOR FECKER scope, loading tools or Pacific dies for .218 Bee and 7.65 Luger, Zipper ammunition, large rifle and pistol primers. D. P. Gurley, 4624 Orange Vista, Riverside, California.

WANTED—MUZZLE LOADING OR FRONTIER handgun, shooting condition, modern target pistol, Walther double action auto pistol. William Bachrach, 6812 Harper Ave., Chicago, Illinois. 6-45

WANTED — 2 OLD .32 SPECIAL CALIBER guns, .22 target pistol or Kitgun, .32 or .38 Revolver, field glasses 6X or 8X power, might consider 7mm. rifle. William Dillehay, Box 3511, Phoenix, Arizona.

WANTED—WINCHESTER MODEL 12 AND 42 16 ga. and .410 ga., also genuine Belgium Browning Sweet-Sixteen, state condition and price. Victor E. Recane, 424 No. Lockwood Ave., Chicago 44, Illinois.

WANTED — FOR CASH: ANTIQUE PISTOLS, rifles swords, daggers, world war rifles, relics, collections, single pieces. Robert Abels, 860 Lexington Ave., New York 21, N. Y. 1-46

WANTED—100 ROUNDS OR LESS .380 COLT automatic ammunition. Cole Lewis, R#2, Box 336, Ogden, Utah.

SELL YOUR SINGLE SHOT RIFLE TO "SINGLE-Shot" Ratliff, Hillyard, Washington, describe fully, state price. 4-45

WANTED—WOLLENSAK POCKESCOPE SR. 6 power, large pistol primers, .44 Special target excellent, .44 Special tools, Ideal mould 429422. 44 Associates, Auburn, Mass.

WANTED—MODEL 70 WINCHESTER .270 CALiber, excellent condition, with or without scope, some ammunition. Chas. Scheidecker, Serena, Illinois.

WANTED—PERFECT STANDARD M70 257 ROBerts, ammunition, also 250-3000 ammunition 100 grain. Stanley Webb, Sheffield, Illinois.

WANTED—MODEL 70 HORNET, EXCELLENT or better, standard or Super grade, member. J. F. Shepler, Logansport, Indiana.

WANTED—MODEL 70, 30-06 STANDARD, EXcellent or better, Lyman rear, full details first letter. J. C. Horton, Santa Ana, California.

WANTED — NAVAL OFFICER NEEDS FOR training aerial gunners skeet model 32 Remington O&U, SS trigger ventilated rib. Ens. L. Schemenaver, USNAS, Alameda, California.

WANTED—ZEISS ZIELKLEINS 1X SCOPE; 12 ga. 3" mag. shells, loads or empty, model 70-270. Edward Anderson, 1041 Boyd Avenue, Fresno, California.

WANTED — FOR CASH: KENTUCKY FLINTlock and percussion rifles, also military long arms. Robert Abels, 860 Lexington Ave., New York 21, N. Y. 1-46

WANTED — GOOD OR BETTER 30-06, GIVE serial number, also good target scope, prefer 1⅛ 8 power Fecker. Lawrence Westhoff, 1926 9th, Bremerton, Washington.

WANTED—BY PRIVATE PARTY, WINCHESTER model 70 in 270, 257, 30-06, please state price and condition, need 2" Smith or Colt .38 Special. S. H. Brunner, 4488 Derby Place, Los Angeles 41, California.

WANTED FOR CASH: .44 COLT AND REMington percussion revolvers, poor to fine. Robert Abels, 860 Lexington Ave., New York 21, N. Y. 1-46

WANTED—MODEL 70 OR 720 IN ANY CALiber, condition immaterial. Roy E. Weatherby, 7672 California Avenue, Huntington Park, California.

WANTED TO BUY: FOLLOWING GUNS & rifles in excellent or perfect condition: Winchester model 12-28 gauge with 26" barrel, matted rib either in full choke or improved cylinder bore, Remington auto., model 11-20 gauge with 26" barrel, improved cylinder bore with plain barrel. Rifles: Savage & Winchester, Hornets, Winchester model 74 in L.R. and Remington model 241 in L.R. Ammunition: 28 gauge, 20 gauge, .410, .22 Hornets, .22 shorts, .25 automatic, .32 automatic, .32 Winchester Specials, .38 Police Positives, 30-40 Krags, 30-30, 30 Remingtons, 30-06, .250-3000 Savage, .300 Savage, .22 Hi-power. I am interested in all kinds of ammunition preferably factory loads and in any amounts. C. R. Hank, 616 E. Main St., Greenville, Ohio.

WANTED — REMINGTON SPORTSMAN 20 gauge skeet with Beavertail, ventilated rib, 26" barrel with factory skeet boring and no alterations, must be perfect or new. C. C. Powell, 2041 McGilvra Blvd., Seattle, Washington.

WANT—FOLLOWING ITEMS IN VERY GOOD to excellent condition: Remington #81 Woodmaster in .300 cal. 4½" Colt Woodsman with King 105 red, reflector-bead front, 122-W rear, Winchester #75 Sporter with B mounted hunting scope and sheepskin case to fit. Describe item fully, stating price. Dallas L. Sharp, Jr., Member, 24 Oak Grove Ave., Springfield 9, Mass.

WANTED—1 BOX FACTORY .357 S&W MAGnum ammunition, flat nose square shoulder type bullet, 1 Bisley model Colt 4¾" barrel, caliber .44 S&W Special or 38-40, original blue, in excellent to perfect condition. Capt. O. K. Wolber, U. S. Army Retired, Member, 2221 Warwick Ave., Santa Monica, California.

WANTED—PISTOL AMMUNITION 25, 32, 380 auto. and .32 long and .38 S&W William Bachrach, 6812 Harper Avenue, Chicago, Illinois.

WANT—WINCHESTER S.S. .22 L.R. HI-WALL or low-wall, prefer Hi-Wall, might swap some 12 ga. shells. O. E. Thiessen, 1246 Greystone Rd., Baltimore 27, Maryland.

WANTED—ARBOR PRESS, BENCH TYPE 1 TO 5 ton. L. Gable, Valley View, Penna.

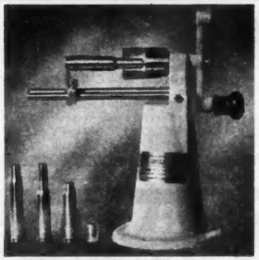
WANTED—SCHMITT DIES, 270, 30-40, 257 AND 357 Magnum in model 12 or 24. Art Wright, Albert Lea, Minnesota.

WILL PAY $200.00 FOR NEW OR PERFECT M70, .375 with stiff 24" barrel, receiver sight, and plenty 300 gr. Silvertip, proportionately for 200 rounds .270 130 gr. Silvertip, ditto 200, .300 Savage 180 gr. Silvertip or Corelokt S.P. $200.00 for perfect 8x40 I.F. Zeiss or B&L, describe fully. Member. N. S. Bement, 715 Forest Avenue, Ann Arbor, Michigan.

WANTED—FULL CHOKE BARREL FOR SAVage 12 ga. automatic, .32 R.F. smooth bore, reasonable Hornet, .22 Hi-power or .250, 44-LCF shot shells, trade Mo skeet targets for .22 shot shells or pay cash. Ray Augspurger, Winchester, Indiana.

WANTED—COLTS .45 AUTOMATIC, EXCELlent or better Commercial with arched housing, dealers do not answer, member. Joseph Maule, 3084 North 18th Street, Kansas City, 2, Kansas.

WANTED—PERFECT 4½" WOODSMAN, FOR boy overseas. Al Waddell, 436 No. Minnesota, Wichita, Kansas.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WANTED—241-L.R. REMINGTON AUTOMATIC, Winchester 70-270, 64-30-30, 30 or 32 Special, 32-40, or Savage 30-30 or 300 rifles, appearance unimportant if action and stock good, need Enfield action, prefer complete, 38-6" Colt Military automatic, poor 45 Colt automatic for parts, fair 45-7" Colt Frontier for conversion good S&W M&P .38 Special, or 357 Magnum, Colt .38 Special P.P., poor .32 Colt Automatic. J. L. Shull, Tyler, Texas.

WANTED—TWO MAUSER M98 ACTIONS OR complete rifle, also two Winchester M92 actions or complete rifle, wood and barrel immaterial. Ed Howe, Coopers Mills, Maine.

WANTED—.38 S&W 4" BARREL, .22 OFFICERS Model Colt Target Pistol .22 Colt automatic Woodsman 6" barrel, 25 Colt automatic with some bullets, .22 Remington automatic rifle for L.R. bullets. Want all excellent to perfect, state prices in answer. J. F. Sanders, 301 Houston St., Greenville, So. Carolina.

WANTED—S&W .44 SINGLE ACTION REVOLVers with 1-9/16" cylinder. Maj. R. H. Smith, 1838 Merriman Avenue, Charlotte, N. Car.

WANT—ENFIELD BARRELS, MAUSER, ENfield, Springfield actions, .218 Bee, 219 Zipper, .22 H.P., 25-35 cases. Mashburn Arms Co. 1226-15th St., Denver, Colorado.

WANTED—30-40 BLANKS, EMPTY PRIMED cases, in good condition, also .22 cal. shorts, state price. Russell Weatherby, Cape May Court House, New Jersey.

WANTED—S&W .32-44 AND .38-44 SINGLE ACtion revolvers with 1-9/16" cylinders, also .38 S&W single action, Model 91 with extra barrels. Maj. R. H. Smith, 1838 Merriman Ave., Charlotte, N. Car.

WANTED — WINCHESTER 12 MAGNUM, Browning Sweet-sixteen and Winchester model 12, 28 gauge, must be excellent, give full descriptions. J. C. Barnes, 1600 Los Robles Ave, San Marino, 9, California.

WANTED—NEW, PERFECT, SUPER GRADE 70 Winchester 270, and any accessories, give full details and price. C. Alfred Bergsten, 1005 Mount Curve, Minneapolis, Minnesota.

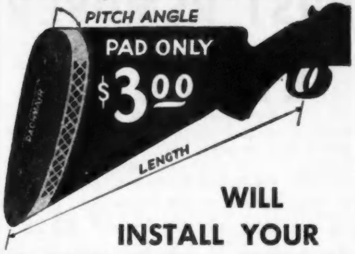
WANTED—GOVERNMENT MODEL .45 COLT automatic pistol, poor or fair. Lt. (jg) W. S. Dawson, U.S.S. Houston, F.P.O. San Francisco, California.

WANTED—ITHACA 10 GAUGE MAGNUM 34" barrels, both full non-selective single trigger automatic ejectors, also Remington 10 gauge Magnum shells 2's or 4's any quantity. L. W. Johnson, 218 Lake Street, Waupaca, Wisconsin. 5-45

WANT—2R LOVELL ON 44½ OR HI-WALL ACtion, high comb stock, cases, tools. C. G. Stetson, 46 Robert Treat, Milford, Conn.

WANTED—WINCHESTER SINGLE SHOTS, HIside, low side, Schuetzens, Muskets, Winchester Lever rifles, in fancy grades, M52 Winchesters, Colt and S&W hand guns, Winchester 8X scopes, describe fully and state price or ship express collect for estimate, no obligation, Weaver 330-440-1X scopes to trade. Midwest Arms Exchange, Dept. R, 28 No. Hazel St., Danville, Illinois.

WANTED—STILL NEED JORDAN MAGNUM press, dies for Zipper, Bee, Hornet, and others, 86 & 100 grain 25 caliber bullets, 150 & 180 grain O.P. or S.P. 30 caliber bullets, Trade. Misc. 30-06, cleaned, polished and primed cases, for clean Winchester West Zipper cases. Help me keep the boys shooting. W. E. Long, 637 Carroll St., Akron, Ohio.



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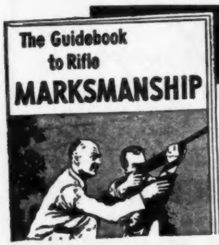

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WANTED—WILL PAY $25.00 FOR GOOD Springfield actions. Henry Adolphi, 77D McNeal, Bremerton, Wash.

WANTED—23A.A. OR WINCHESTER MODEL 61 or 75 Sporter, must be good inside. Louis Peterson, Alderpoint, California.

WANTED—30-06 MODEL 70, 720 OR ENFIELD rifle, 29S scope, also 8mm. Mauser ammunition. Hale Adams, Oak Harbor, Washington.

WANTED—WILL BUY GOOD 10 GAUGE DOUBLE, no Damascus barrels, if priced very reasonable, also want Winchester Model 12, 3", 12 gauge, must be very good. P. A. Glaeser, Waconia, Minnesota.

WANTED—DIE, SIZE 311, AND TOP PUNCH for Ideal Lubricator and sizer, also large rifle primers. Art Leffler, 430 Pacific Ave., Long Beach 2, California.

WANTED—SOME .22 CALIBER HEAVY BARrel target rifles, large size shooting coats, bullet traps. Kearny County Rifle Club, Deerfield, Kansas.

WANTED—16 GAUGE PARKER GUN, DHE OR better, with ventilated rib, condition of barrels and frame must be excellent. Want examination privilege, write details and be very explicit. D. J. Bond, 32505 Lahser Road, Birmingham, Michigan.

WANTED—BRASS SHOTGUN SHELLS, 10, 12, and 20 ga. new or used, state what you have and price, one 10. ga. double hammerless, with nickel steel barrels, 30 or 32", give full description in first letter, and price, Kings Semi-Smokless Powder. Geo. F. Weisner, 321 Melrose St., Modesto, California.

WANTED—ONE MODEL 37 REMINGTON IN excellent condition, must be late model with long fore-end, give full details concerning sights, fittings, etc., also, serial number and approximate number of shots fired, state price, also want ammunition. Leonard Morton, 1251 South Second, Louisville 3, Kentucky.

WANTED—.22 CONVERSION UNIT FOR .45 N.M. automatic. R. O. Sinclaire, 333 Seaspray Avenue, Palm Beach, Florida.

WILL PAY $20.00 FOR HEYM, JAEGER, OR comparable set triggers for Mauser. J. P. Garland, Dept. Justice Bldg., Washington, D. C.

WANT—9MM. LUGER AMMUNITION, LUGER magazine, B&M powder measure. S. A. Zubris, Penn Yan, N. Y.

WANTED—EXCELLENT SAVAGE 23D K-HORnet, loading tools, cases and components, 2R Lovell loads and 25-20 SS cases. Lloyd Garriott, 465 Parker, Tracy, California.

WANTED—28 GAUGE PUMP OR AUTOMATIC chambered for 2⅞ shells. Guy Johnson, Grand Haven, Michigan.

WANTED—12 GAUGE REMINGTON MODEL 31 solid or ventilated rib with or without compensator or Winchester 12 same conditions. Winchester, Savage or Browning auto. 250-3000 Model 99 Savage with shells. Complete 12 gauge reloading outfit. A. L. Terhaar, C.Sp. Gunner, Squadron VB-2, N.A.S. Beaufort, So. Car.

WANTED—.22 LADYSMITH, PARKER, SMITH, or Fox hammerless double 30" full modified, excellent. Gowen, 2700 Fig. Tampa 6, Florida.

WANTED—ACE, SHORT WOODSMAN, BANKers Special or new Defender in .22 caliber. 20 ga. or 410 double. Milton Pittman, Columbus, Nebraska.

WANTED—HIGH POWER RIFLES AND ACtions. H. E. Preece, Quinn Court, Needles, California.

WANTED—EXCELLENT OR PERFECT MODEL 70-270 with or without ammunition. Bob Koblenzar, Port Orford, Oregon.

WANTED—30-06 HUNTING AMMUNITION, must be fresh stock, Leslie Zadany, R. #1, West Willington, Conn.

WANTED—93 GR. LUGER BULLETS OR, 110 gr. 30 caliber bullets, expanding. Joe Gabelli, R. D. #1, Box 147, Blairsville, Penna.

WANTED—.25 CALIBER BULLETS AND LARGE primers all kinds. Willis Pointer, Sheridan, Wyoming.

WANTED—COLT MATCH TARGET PISTOL (new condition), and S&W 357 Magnum, with 8⅜" barrel, cash, or trade fine guns. S. De Ranitz, Prairie du Chien, Wisconsin.

WANTED—.28-30 SCHUETZEN RIFLE WITH false muzzle and accessories, must be in perfect condition. Chester Nikodym, 1615 NBC Building, Cleveland 14, Ohio.

WANTED—COMMERCIAL STANDARD AND Magnum Mauser actions, backstrap and hammer for Colt Single action Army. L. B. Griswold, 7715A West Center, Milwaukee, Wisconsin.

WANTED: COMPONENTS: PAYING GOOD prices, primers, FAs, L&S rifle and pistol, bullets, jacketed, all calibers, cases, 30-40, 8mm. .32 S&W long and short, 32-20, 32-40, 348, 38-55, 9mm. Mauser, 38-40, 44-40, 45-70, 25-20, 9mm. Luger, 303 British, 35 Win. S. L. 35 Winchester 6.5mm. Schoenauer, no reponsibility accepted for shipments unless requested. Jim Clark, 2029 West Fondulac Ave., Milwaukee, Wisconsin. 7-45

WANTED—30-40, 250, 219, 25-35, 30-30 CASES, must be good clean brass, also want good Sporter stocks for Springfield, Enfield and Winchester Single shots, Want hunting bullets from .22 to .30 caliber. Roy E. Triplett, Box 6, Cimarron, New Mexico.

WANTED—MODEL 99R OR E.G. OR R.S. .300 Savage, v.g. or better, c.o.d. inspection privilege, also 45-60 black powder cartridges, any Morse-Watkyn prewar .224 bullets prefer .46 gr. 139 O.P. 7mm. cartridges and or bullets, will swap 175 gr. S.P., also wanted 120 primers, 275 gr. .35 Remington expanding cartridges and or bullets, .348 200 gr. cartridges, .30 cal. bullets in 180 gr. Silver Tip or O.P. 120 gr. W.T.&C. or 225 gr. Peters belted, 250-3000 unfired cases and .25 caliber, 100 grain or 87 gr. M.C. expanding bullets, .30 Newton unfired cases. Alex Fader, 305 Second Avenue, Upland, California.

WANTED—WINCHESTER 70 .270 PERFECT OR excellent with or without Lyman Alaskan scope, also ammunition, describe fully, examination privilege required. Geo. P. Wakefield, R. #2, Vermilion, Ohio.

WANTED—LATE MODEL WINCHESTER 52 target rifle, give description and price. K. J. Fugit, P.O. Box 191, Modesto, California.

WANTED—LATEST WALNUT HILL M417 PREFerably with extension rear, B & L prismatic with 26X eyepiece, M70-220 Swift, clip for .303 British Lee-Enfield. A. D. Sanial, LaCrosse, Wisconsin.

WANTED—TO OBTAIN PARTS, 1891, .38 S&W revolver in poor condition. C. Wahrer, Eldorado, California.

WANTED—.30 LUGER, 30 MAUSER AMMUNItion will trade long rifle high speeds for above or what? E. W. Robbins, Milford, Mass.

WANTED—.219 ZIPPER FACTORY LOADED cartridges, new or fired once empty cases, empty new or fired once shotgun shells, all kinds shotshell reloading tools, Winchester model 70 rifles in all calibers, Winchester Hi-Side and Stevens 44½ complete rifles or actions, plain and Schuetzen types, Browning Lightning O&U twelve gauge 26" barrels, Browning Sweet Sixteen and twelve gauge automatics, High grade doubles in 12, 16, 20 and 410 ga. Leslie Lindahl, Central City, Nebraska.

WANT—TWO .22 SS RIFLES, VERY GOOD, BETter. Arnold Hyman, 645 Ocean Avenue, Brooklyn, New York.

WANT—6.5MM. MANNLICHER & CARTRIDGES, 52 Sporter, both preferably with scopes, .38 S&W 2", K-22 Masterpiece, K-38, S&W 32-22, 25 auto, 9mm. Luger & Super .38 cartridges. W. Staudte, 5238 Milwaukee Ave., Palisade 10410, Chicago, 30, Illinois.

WANTED—30-06, 8MM. & .30 CALIBER 93 grain Luger slugs, large & small rifle primers, Pacific or B&M reloading tool. G. Pierce, 932 Hewitt Way, Baltimore 5, Maryland.

WANTED—ENFIELD ACTION OR RIFLE, state price, make, condition. Fielding B. Hall, 1322 Montana St., Los Angeles, 26, California.

WANTED—12 GAUGE AUTOMATIC SHOTGUN, 74 Winchester for shorts M70 30-06, 257, or 270, Mt. Colt, Alaskan or Noske. Glenn Wilder, Chardon, Ohio.

WANTED—EXCELLENT, PERFECT 12 GAUGE, Remington Sportsman automatic with Poly Choke preferred model 63 Winchester automatic .30 caliber bullets not military. Nick Messmer, 1735 S. E. Hawthorne, Portland, Oregon.

WANTED—HIP BOOTS, SIZE 8, LIGHT OR medium weight. Walter Kelsey, Sarven Court, Tarrytown, N. Y.

WANTED — BAUSCH & LOMB (CENTRAL focus, late type) 6x30, 7x35, or 7x50 binoculars, please be reasonable. Nelson Manning, 304 Locust St., Columbia, Penna.

WANTED—H&R BURGLAR GUN .28 GAUGE, must be fine inside, state barrel length, also Winchester 94 & 92 models, engraved receivers, state caliber, condition and price. J. S. Hamlin, Peach Dale, R. I.

WANTED—BOND-LOVERIN MOLD NO. F257616 for 74-grain gas check bullet. A. H. Barr, N.R.A., 1600 Rhode Island Avenue, N. W., Washington 6, D. C.

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WEAVER 330S, $31.90, WEAVER 440S, $37.40, Weaver 1X for shotguns, $22.60, Choice of Redfield Junior mount at $9.60, B mounts $6.60, Stith, $12.00, one or two target scopes available, ask for list of scopes and sights. C. E. Purdie, Faribault, Minnesota. tf

WANTED—HENSOLDT NIGHT DIALYT 7x56 binoculars, will pay cash, will sell Sport Dialyt 8 x 30 good condition. Wm. L. Hampton, No. Hanover St., Pottstown, Penna. 4-45

WANTED—SCOPE, ZEISS ZIELMAR, ZIELMULITE, Zielmultar, Ajack 1½ x 100, Ajack 3 x 75. Cash or trade. K. Mayer, Lebanon, Oregon. 4-45

WANTED—7 x 50 BINOCULARS EXCELLENT condition. E. J. Pennell, Nixon, Texas.

ZEISS 6 x 30 SILVARIM, C.F. LEATHER CASE, very good, $130.00. H. W. Oldham, Box 148, Eastland, Texas.

LATEST ZEPHYR LIGHT MODEL C.F. B&L binoculars 7 x 35; case, straps, all perfect, $100.00. L. A. Stoyell, 621 93rd St., Niagara Falls, N. Y.

FOR SALE—TWO 20 POWER FRENCH SPOTTING scopes, optically perfect, good outside, $20.00 each. One Wollensack 20 power, excellent, $15.00. B. W. Busse, 5248 Park Ave., Minneapolis 7, Minnesota.

LEATHER LENS COVERS, WEAVERS $1.30, others $1.50, special prices to dealers, Hicks and Morris, Box 408, Clovis, New Mexico. tf

FOR SALE — BINOCULARS, FRENCH MAKE 8 x 30, featherweight type with leather case, new condition, first money order for $90.00. W. M. Weir, 1786 East 9th South, Salt Lake City, Utah.

WANTED—BAUSCH & LOMB OR ARGUS SPOTTING scope, Lyman or Fecker target scope, any power. W. P. Klapp, Paoli, Pennsylvania 2-46

FOR SALE—BINOCULARS 12X POWER HELinox Trieder i.f. C.P. Goerz Berlin, excellent, real clear with leather case, $155.00. C. E. Swartz, Wisdom, Montana.

WEAVER SCOPES 330S $29.70, 440S $35.20, 1X $20.35, T mounts $1.10, B $6.60, Redfield Jr. $9.50, Stith $12.00, leather lens covers free with scopes. Prepaid. S. A. Wentling, Palmyra, Penna.

FOR SALE — B&L DRAWTUBE SPOTTING scope, Mossberg stand perfect, $55.00. J. W. McCauley, 309 Lindsay Street, Bristol, Virginia.

A FEW NEW FECKER AND UNERTL TARGET scopes at list. Used 330S X-hairs excellent, $26.50. B&M 3X with mount very good $35.00, new Weaver scopes at list, including free leather lens covers. S. A. Wentling, Palmyra, Penna.

ZEISS ZIELKLEIN, LEE DOT, WITH REDFIELD Jr. mount for Winchester 70, excellent, $85.00. J. E. Reese, 914 So. Melendres, Las Cruces, New Mexico.

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EXCELLENT B&L 10 X 50 BINOCULARS, CASE, factory carton $190.00 or Zeiss Zielvier equipped Sporter. J. W. Latham, 744 Chipeta, Grand Junction, Colorado.

WANTED—EXCELLENT SPEED GRAPHIC SIZE 3¼ x 4¼ with coupled range finder and flash gun. William E. Brown, 528 West Robinson, Mexico, Missouri.

WANTED — LYMAN ALASKAN SCOPE, STATE price. Earl Berg, Brighton, Michigan.

NEW WEAVER 330S SCOPES $29.70, 440S $35.20, 1X $20.35, T Mounts $1.10, B $6.60, Redfield $9.50, Stith $12.00, leather lens covers free with scope, trades. S. A. Wentling, Palmyra, Penna.

FOR SALE OR TRADE—BINOCULARS 10 x 45 Bausch & Lomb Lightweight with extension sun shades & moveable amber sun filters, heavy russet leather case, straps, all new, never used, $175.00 or trade for 7 x 50 excellent. M. M. Stewart, 11527 Garfield, Hollydale, California.

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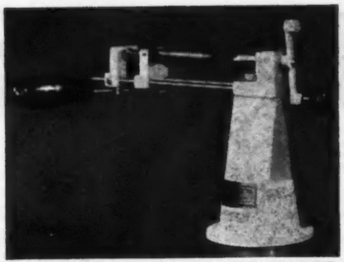

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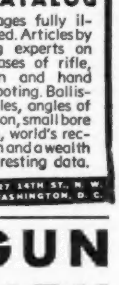

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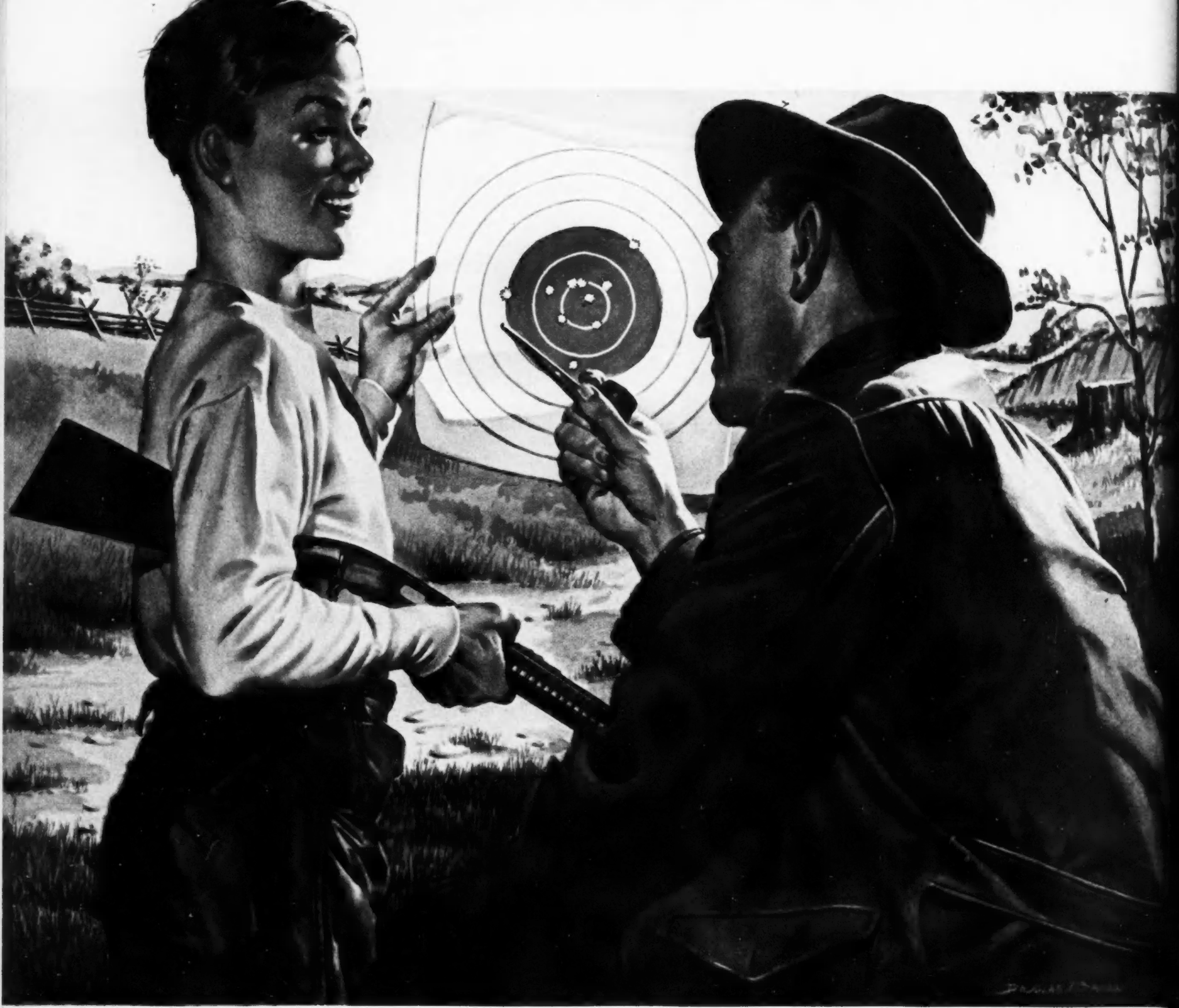

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